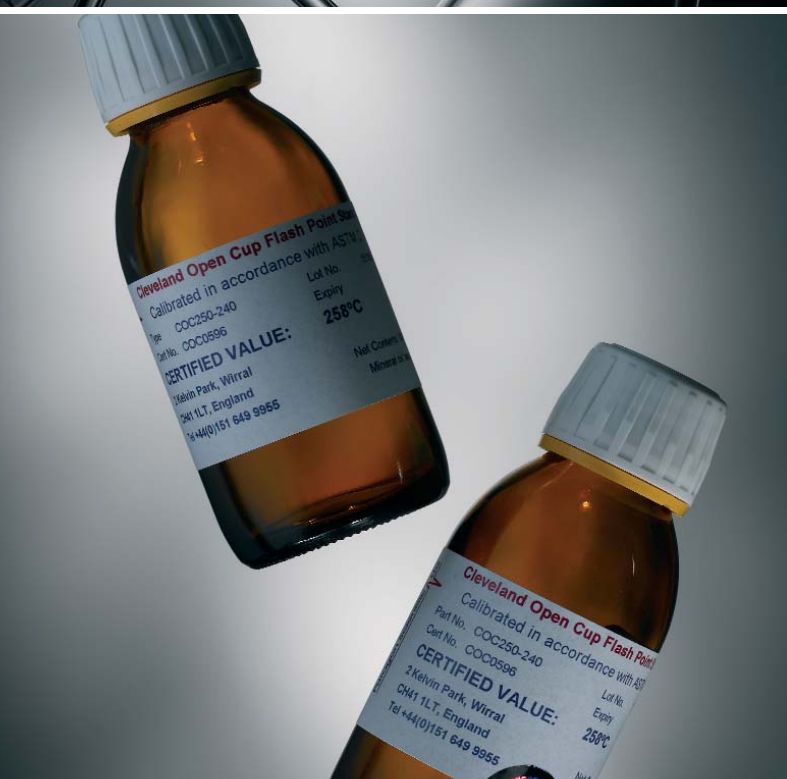
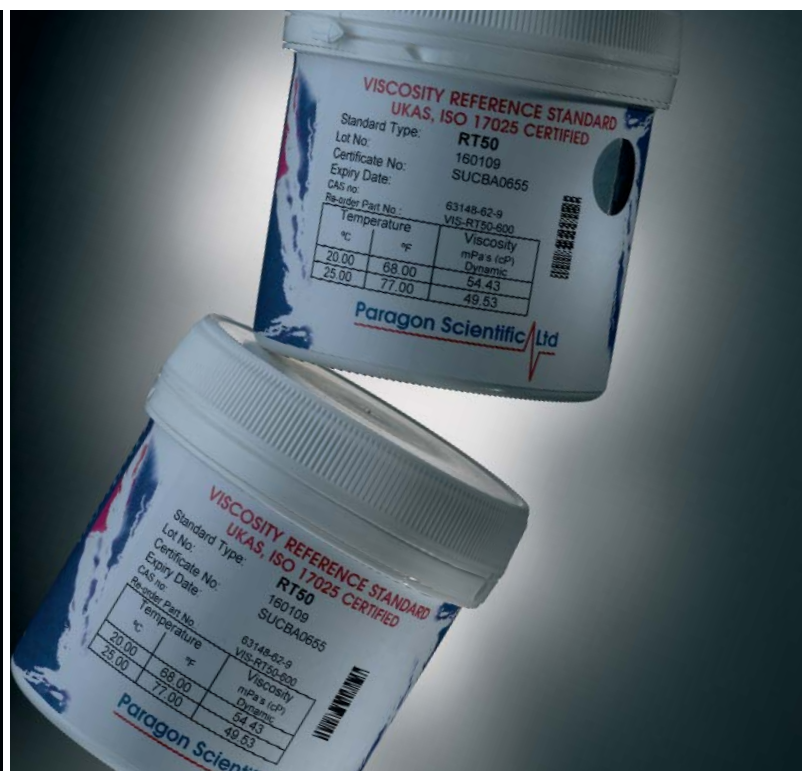


Providing Industry with 'turn key' solutions - worldwide



SECTION 1

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D 1160 Receivers

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Glass Capillary Viscometers

- BS/IP/RF U Tube Reverse Flow for Opaque Liquids
- BS/IP/SL Suspended Level for Transparent Liquids
- BS/IP/SL (s) Suspended Level Short Form for Transparent Liquids
- BS/IP/MSL Miniature Suspended Level for Transparent Liquids
- BS/U U Tube for Transparent Liquids
- BS/U/M Miniature U Tube for Transparent Liquids
- Cannon Fenske Routine Viscometer for Transparent Liquids
- Cannon Fenske Opaque Viscometer for Transparent & Opaque Liquids
- Ubbelohde Viscometer for Transparent Liquids
- Zeitfuchs Cross-Arms Viscometer

Thermometers

- Digital Thermometers
- Stainless Steel Pt Probes
- ASTM & IP Mercury in Glass Thermometers

Testing & Calibration Services

- Viscometer Calibration / Recalibration Services
- Hydrometer Calibration
- Thermometer Calibration

Viscosity Testing Accessories

Main Agents Status

- PM Tamson Instruments
- Stanhope-Seta
- The Tintometer Limited
- Bellingham + Stanley



Please note all values contained in this brochure are nominal, for exact values, please check our website www.paragon-sci.com or call +44 (0) 151 649 9955.



Setting New Standards in Reference Materials

Paragon Scientific Limited specialise in the production of premium quality reference materials that include Density, Flash Point, Liquid Colour, Refractive Index, TAN/TBN and Viscosity Standards.

Founded in 1994, we have developed an international reputation synonymous with quality, prompt delivery, affordability and first class customer service.

A combination of advanced manufacturing techniques, the use of Primary laboratory test equipment and methodology plus our acute attention to detail enables us to produce reference materials with some of the lowest levels of uncertainty of measurement available.

Our products are used in multiple industries throughout the world, which we service both directly from our headquarters in the UK and via our appointed global distributor network.

Our Business Partners

Working with world class companies allows us to offer 'turn key' solutions to our existing customer base and beyond.

From petroleum testing and colour management, to refractive index, reagent and laboratory glassware supplies, we can now offer a selection of products from some of the world's most credible companies.

We hold Main Agent Distributor Status for the following companies:

- PM TAMSON INSTRUMENTS
- STANHOPE-SETA
- THE TINTOMETER LIMITED
- BELLINGHAM + STANLEY



Our Accreditations

The United Kingdom Accreditation Service (UKAS) is the only body recognised by the UK Government certification and conformity to international agreed standards for testing, calibration and inspection.

UKAS accreditation denotes competence for customers to make an informed and confident choice in the procurement process.

The UKAS mark ensures buyers have peace of mind.

UKAS also bridges international barriers, making trade easier, especially in new growth markets.

International Recognition

ISO 17025 is recognised, internationally for competence to carry out testing and or calibrations to the standard dictated by international methods. This requires accredited facilities to comply with all the requirements detailed within the varied sections of the standard.



These include: assuring test quality, calibration results, environmental conditions and purchasing.

ISO 17025 is applicable to laboratories operating in a multitude of business sectors, including automotive, cosmetics, micro-electronics, pharmaceutical, petro chemical and power generation.



ISO Guide 34

In addition to ISO 17025, the highest level of quality assurance is achieved through ISO 17025 / ISO Guide 34.

This confirms the expertise of the manufacturer, the integrity of the production systems and the reliability of the Certified Reference Materials produced.



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Please refer to our accreditation page at www.paragon-sci.com



ISO 17025 Calibration & Verification Standards (Section 1)

Flash Point Standards

Paragon Scientific produces both primary Certified Reference Materials (CRM's) and Secondary Working Standards (SWS's) for flash point in full accordance with the requirements of ASTM D 92 (Cleveland Open Cup Flash Point) and ASTM D 93 (Pensky Marten Closed Cup Flash Point).

In accordance with both methods we produce and certify:

Primary Certified Reference Materials (CRM's)

Certified Reference Materials (CRM's) which are certified primary standards. The data is established by a method-specific interlaboratory study in full compliance with ISO Guide 34 in accordance with our accreditation by UKAS. These materials are intended to be used at least once a year for instrument and/or method verification in accordance with ASTM D 92 or ASTM D 93.

ASTM D 92 Cleveland Open Cup Flash Point

Certified Reference Material (CRM).

- Certified Reference Material for annual verification checks in accordance with ASTM D 92
- Certified in accordance with our UKAS accreditation to ISO 17025 / ISO Guide 34 by means of a method specific inter-laboratory study
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- Supplied with MSDS
- Tamper evident security packaging
- 1 year shelf life
- Manufactured in the United Kingdom

ASTM D 92 Cleveland Open Cup Flash Point (Primary)				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-COC-Low	ASTM D 92	Mineral Oil	83.0°C	3 x 80mL
CRM-COC-Mid	ASTM D 92	Mineral Oil	152.0°C	3 x 80mL
CRM-COC-High	ASTM D 92	Mineral Oil	263.0°C	3 x 80mL

Please check website for up-to-date information

ASTM D 93 Pensky Marten Closed Cup Flash Point

Certified Reference Material (CRM).

- Certified Reference Material for annual verification checks in accordance with ASTM D 93
- Certified in accordance with our UKAS accreditation to ISO 17025 / ISO Guide 34 by means of a method specific inter laboratory study
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- Supplied with MSDS
- Tamper evident security packaging
- 1 year shelf life
- Manufactured in the United Kingdom

ASTM D 93 Pensky-Martens Closed Cup Flash Point (Primary)

Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-PMCC-Low	ASTM D 93	Mineral Oil	77.0°C	3 x 80mL
CRM-PMCC-Mid	ASTM D 93	Mineral Oil	141.0°C	3 x 80mL
CRM-PMCC-High	ASTM D 93	Mineral Oil	230.0°C	3 x 80mL

Please check website for up-to-date information





Secondary Working Standards (SWS's)

Secondary Working Standards (SWS's) which are secondary working standards manufactured and certified by Paragon according to ISO 17025 and ISO Guide 34. These standards are designed to be used on a frequent basis in order to verify test equipment functionality on an on-going basis.

These are secondary working standards, which have been characterised in accordance with ASTM D 92 or ASTM D 93. They are suitable for monitoring the equipment between annual verification checks as specified in ASTM D 92 or ASTM D 93.

ASTM D 92 Cleveland Open Cup Flash Point

Secondary Working Standard (SWS).

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Secondary working standard characterised in accordance with ASTM D 92 for equipment performance checks
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- Supplied with MSDS
- Tamper evident security packaging
- 1 year shelf life
- Manufactured in the United Kingdom

ASTM D 92 Cleveland Open Cup Flash Point

Product Code	Test Method	Product Nature	Certified Value	Pack Size
FP-COC-1	ASTM D 92	Mineral Oil	85.0°C	3 x 80mL
FP-COC-3	ASTM D 92	Mineral Oil	149.0°C	3 x 80mL
FP-COC-4	ASTM D 92	Mineral Oil	193.0°C	3 x 80mL
FP-COC-5	ASTM D 92	Mineral Oil	257.0°C	3 x 80mL
FP-COC-6	ASTM D 92	Mineral Oil	112.0°C	3 x 80mL

Please check website for up-to-date information

ASTM D 93 Pensky Marten, Procedure A, Closed Cup Flash Point

Secondary Working Standard (SWS).

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation.
- Secondary working standard characterised in accordance with ASTM D 93, Procedure A, for equipment performance checks
- Packaged in 3 x 80mL bottles - 'One shot' one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- Supplied with MSDS
- Tamper evident security packaging
- 1 year shelf life
- Manufactured in the United Kingdom

ASTM D 93 Pensky-Martens Closed Cup Flash Point

Product Code	Test Method	Product Nature	Certified Value	Pack Size
FP-PMCC-1	ASTM D 93 Proc. A	Diesel	56.5°C	3 x 80mL
FP-PMCC-2	ASTM D 93 Proc. A	Mineral Oil	76.5°C	3 x 80mL
FP-PMCC-3	ASTM D 93 Proc. A	Mineral Oil	116.5°C	3 x 80mL
FP-PMCC-4	ASTM D 93 Proc. A	Mineral Oil	140.0°C	3 x 80mL
FP-PMCC-5	ASTM D 93 Proc. A	Mineral Oil	186.5°C	3 x 80mL
FP-PMCC-6	ASTM D 93 Proc. A	Mineral Oil	232.0°C	3 x 80mL
FP-PMCC-7	ASTM D 93 Proc. A	Mineral Oil	100.5°C	3 x 80mL

Please check website for up-to-date information

Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified viscosity standards are for the calibration and verification of glass capillary viscometers and other viscosity measuring equipment where operating temperature is controlled precisely.

At Paragon Scientific we understand the importance of accurate calibration in your laboratory so we only source the highest quality raw materials for use in the manufacture of all our viscosity standards. Using only the best quality materials means that our standards are highly stable in all environments, you will not experience 'flocking' (associated with cool environments), discolouration or sedimentation.

We fully test our products at every given data point, so you can be assured that the certified value given is the most accurate available.

Paragon Scientific Viscosity Standards are certified according to ISO 17025 and ISO Guide 34, accredited by UKAS and are tested in accordance with the primary method for viscosity determination which references the value of water as 1.0034 mm²/s (cSt) at 20°C (1.0016 mPa·s (cP) at 20°C).

CCS Viscosity Standards (Cold Cranking Simulator)

Paragon ISO 17025 / ISO Guide 34 dual certified CCS viscosity standards are for the calibration and verification of analytical equipment used in Cold Cranking Simulator (CCS) oil testing to ASTM D 5293 and SAE Specification J300.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 2 year shelf life
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch



Cold Cranking Simulator Viscosity (CCS) Standards Dynamic mPa·s (cP)

Product Code	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C
*VIS-CCS-8	-	-	-	-	-	-	-
**VIS-CCS-14	-	-	-	-	-	-	-
CL08 (CL080)	-	-	-	-	-	-	898.8
CL09 (CL090)	-	-	-	-	-	-	1082
CL10 (CL100)	-	-	-	-	-	868.8	1733
CL11 (CL110)	-	-	-	-	-	1419	2363
CL12 (CL120)	-	-	-	-	844.1	1627	3396
CL13 (CL130)	-	-	-	-	1707	2826	4895
CL14 (CL140)	-	-	-	851.0	1605	3252	7133
CL15 (CL150)	-	-	-	1625	2632	4460	7955
CL16 (CL160)	-	-	-	1346	2632	5550	12678
CL17 (CL170)	-	-	1354	2147	3540	6104	11114
CL19 (CL190)	-	-	973.2	1805	3585	7644	17758
CL20 (CL200)	-	-	1553	2466	4064	7032	12866
CL22 (CL220)	-	-	1321	2522	5170	11396	-
CL24 (CL240)	-	-	2143	3482	5884	10474	19722
CL25 (CL250)	-	987.7	1797	3497	7295	16451	-
CL26 (CL260)	-	1676	2644	4320	7357	13203	-
CL28 (CL280)	-	1309	2435	4804	10274	-	-
CL30 (CL300)	-	2287	3648	6033	10448	19012	-
CL32 (CL320)	-	1845	3538	7236	16084	-	-
CL34 (CL340)	-	2555	4085	6794	11832	-	-
CL38 (CL380)	-	2901	5815	12660	-	-	-
CL42 (CL420)	-	5089	8370	14409	-	-	-
CL48 (CL480)	2362	4561	9527	21354	-	-	-
CL53 (CL530)	-	5922	9812	17002	-	-	-
CL60 (CL600)	3649	7204	15320	-	-	-	-
CL68 (CL680)	-	9597	-	-	-	-	-
CL74 (CL740)	5833	11934	-	-	-	-	-

Please check website for up-to-date information

*VIS-CCS-8 – Set of 8 CCS Standards containing one 500mL bottle of each
CL14, CL19, CL22, CL25, CL28, CL32, CL48, CL74

**VIS-CCS-14 – Set of 14 CCS Standards containing one 500mL bottle of each
CL10, CL12, CL14, CL16, CL19, CL22, CL28, CL32, CL38, CL48
CL60, CL74 and two 500mL bottles of CL25

Cone & Plate Viscosity Standards (CAP)

Paragon ISO 17025 / ISO Guide 34 dual certified cone and plate viscosity standards are specifically formulated for the paint and coatings industry and represent the most comprehensive range of standards available for this application. Each value at every test temperature is tested to ASTM D 2162 and are NOT extrapolations.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in accordance with ASTM D 2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in accordance with ASTM D 1480
- Kinematic (cSt), Dynamic Viscosity (mPa·s) & Density (g/mL) quoted at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 2 year shelf life
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch

Cone & Plate Viscosity Standards (CAP)

Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	Krebs (KU)
2162/1	20°C	86.39	74.12	0.8580	44.10
	21°C	81.63	69.99	0.8574	43.70
	22°C	77.20	66.14	0.8567	43.40
	23°C	73.13	62.61	0.8561	43.10
	24°C	69.26	59.25	0.8554	42.80
	25°C	65.68	56.14	0.8548	42.50
2162/2	20°C	116.8	100.6	0.8613	46.30
	21°C	110.0	94.68	0.8607	45.80
	22°C	103.8	89.27	0.8600	45.40
	23°C	98.03	84.25	0.8594	44.90
	24°C	92.61	79.52	0.8587	44.50
	25°C	87.62	75.19	0.8581	44.20
2162/3	20°C	157.1	135.0	0.8596	49.00
	21°C	147.9	127.0	0.8590	48.30
	22°C	139.2	119.5	0.8584	47.80
	23°C	131.1	112.4	0.8577	47.20
	24°C	123.7	106.0	0.8571	46.70
	25°C	116.9	100.1	0.8565	46.20
2162/4	20°C	239.8	207.7	0.8661	54.00
	21°C	224.4	194.2	0.8654	53.10
	22°C	210.4	182.0	0.8648	52.30
	23°C	197.3	170.5	0.8641	51.50
	24°C	185.3	160.0	0.8635	50.80
	25°C	174.2	150.3	0.8628	50.10

Please check website for up-to-date information

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Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	Krebs (KU)
2162/5	20°C	325.8	282.1	0.8658	58.50
	21°C	304.5	263.5	0.8652	57.40
	22°C	285.1	246.5	0.8646	56.40
	23°C	267.1	230.8	0.8639	55.40
	24°C	250.4	216.2	0.8633	54.50
	25°C	235.1	202.8	0.8627	53.70
2162/6	20°C	405.3	352.3	0.8692	62.30
	21°C	377.7	328.1	0.8686	61.00
	22°C	353.0	306.4	0.8679	59.80
	23°C	329.7	285.9	0.8673	58.70
	24°C	308.4	267.3	0.8666	57.60
	25°C	288.9	250.2	0.8660	56.60
2162/7	20°C	488.1	423.6	0.8679	65.80
	21°C	455.5	395.0	0.8673	64.40
	22°C	425.3	368.6	0.8667	63.10
	23°C	397.1	343.9	0.8660	61.80
	24°C	371.3	321.3	0.8654	60.70
	25°C	347.8	300.8	0.8648	59.50
2162/8	20°C	574.5	500.3	0.8709	69.20
	21°C	534.1	464.8	0.8703	67.60
	22°C	497.8	432.9	0.8697	66.20
	23°C	464.0	403.2	0.8690	64.80
	24°C	433.0	376.0	0.8684	63.50
	25°C	404.6	351.1	0.8678	62.20
2162/9	20°C	647.9	564.5	0.8713	71.80
	21°C	602.6	524.7	0.8707	70.20
	22°C	560.9	488.0	0.8701	68.60
	23°C	522.5	454.3	0.8694	67.20
	24°C	487.5	423.5	0.8688	65.70
	25°C	455.3	395.3	0.8682	64.40
2162/10	20°C	829.5	723.6	0.8723	77.60
	21°C	770.0	671.2	0.8717	75.80
	22°C	715.5	623.3	0.8711	74.00
	23°C	665.7	579.5	0.8705	72.40
	24°C	620.0	539.3	0.8699	70.80
	25°C	578.1	502.5	0.8693	69.30
2162/11	20°C	1197	1046	0.8738	87.10
	21°C	1109	968.4	0.8732	85.10
	22°C	1029	897.9	0.8726	83.10
	23°C	954.1	832.0	0.8720	81.10
	24°C	886.5	772.5	0.8714	79.20
	25°C	824.2	717.7	0.8708	77.40

Please check website for up-to-date information

Cont...

Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	Krebs (KU)
2162/12	20°C	1689	1477	0.8746	97.00
	21°C	1564	1367	0.8740	94.70
	22°C	1448	1265	0.8734	92.50
	23°C	1342	1171	0.8728	90.30
	24°C	1245	1086	0.8722	88.20
	25°C	1156	1008	0.8716	86.10
2162/13	20°C	2573	2260	0.8783	110.2
	21°C	2372	2082	0.8776	107.4
	22°C	2190	1921	0.8770	104.9
	23°C	2024	1774	0.8763	102.5
	24°C	1872	1639	0.8757	100.1
	25°C	1734	1517	0.8750	97.80
2162/14	20°C	4318	3804	0.8809	129.6
	21°C	3970	3495	0.8803	126.3
	22°C	3656	3216	0.8797	123.0
	23°C	3370	2963	0.8791	119.9
	24°C	3109	2731	0.8785	116.9
	25°C	2871	2520	0.8779	114.0
2162/15	20°C	6935	6116	0.8819	149.5
	21°C	6369	5613	0.8813	145.8
	22°C	5858	5159	0.8807	142.1
	23°C	5393	4746	0.8801	138.6
	24°C	4967	4368	0.8795	135.2
	25°C	4578	4024	0.8789	131.8
2162/16	20°C	10448	9227	0.8831	168.3
	21°C	9590	8464	0.8825	164.2
	22°C	8810	7770	0.8820	160.3
	23°C	8091	7132	0.8814	156.4
	24°C	7740	6554	0.8809	152.6
	25°C	6850	6030	0.8803	148.9
2162/17	20°C	14114	12512	0.8865	183.0
	21°C	12915	11442	0.8859	178.6
	22°C	11831	10475	0.8854	174.3
	23°C	10835	9603	0.8848	170.2
	24°C	9956	8804	0.8843	166.1
	25°C	9155	8090	0.8837	162.1
2162/18	20°C	17966	15957	0.8882	195.2
	21°C	16447	14599	0.8877	190.7
	22°C	15060	13360	0.8871	186.3
	23°C	13816	12249	0.8866	182.0
	24°C	12679	11234	0.8860	177.7
	25°C	11627	10296	0.8855	173.5

Please check website for up-to-date information

Cont...

Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	Krebs (KU)
2162/19	20°C	26606	23690	0.8904	215.8
	21°C	24281	21605	0.8898	211.0
	22°C	22246	19783	0.8893	206.3
	23°C	20355	18089	0.8887	201.7
	24°C	18609	16529	0.8882	197.0
	25°C	17086	15166	0.8876	192.7
2162/20	20°C	35238	31404	0.8912	231.0
	21°C	32164	28647	0.8907	226.0
	22°C	29379	26151	0.8901	221.1
	23°C	26871	23904	0.8896	216.3
	24°C	24651	21916	0.8890	211.7
	25°C	22597	20077	0.8885	207.1
2162/21	20°C	20.55	17.27	0.8403	38.80
	21°C	19.72	16.56	0.8396	38.70
	22°C	18.93	15.88	0.8390	38.70
	23°C	18.18	15.24	0.8383	38.60
	24°C	17.47	14.63	0.8377	38.50
	25°C	16.80	14.06	0.8370	38.50
2162/22	20°C	43.51	37.11	0.8528	40.70
	21°C	41.38	35.26	0.8521	40.60
	22°C	39.39	33.54	0.8515	40.40
	23°C	37.52	31.92	0.8508	40.20
	24°C	35.77	30.41	0.8502	40.10
	25°C	34.11	28.98	0.8495	40.00
2162/23	20°C	645.4	562.1	0.8710	71.70
	21°C	600.4	522.6	0.8704	70.10
	22°C	559.0	486.2	0.8698	68.60
	23°C	520.8	452.6	0.8691	67.10
	24°C	485.8	421.9	0.8685	65.70
	25°C	453.5	393.6	0.8679	64.30
2162/24	20°C	3397	2986	0.8790	120.2
	21°C	3128	2748	0.8784	117.1
	22°C	2885	2533	0.8779	114.2
	23°C	2660	2334	0.8773	111.3
	24°C	2460	2157	0.8768	108.5
	25°C	2273	1992	0.8762	106.0

Please check website for up-to-date information

Flow Cup Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified flow cup standards are especially designed for use in DIN, Ford, ISO, Shell and Zahn flow cups and are also dual purpose density standards. Certified at 20°C and 25°C, each value is tested to ASTM D 2162 for viscosity measurement and ASTM D 1480 for density measurement. Each value at every test temperature is tested to ASTM D 2162 and are NOT extrapolations.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in accordance with ASTM D 2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in accordance with ASTM D 1480
- Kinematic (cSt), Dynamic Viscosity (mPa·s) & Density (g/mL) quoted at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 2 year shelf life
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch

Flow Cup Viscosity Standards Certified Values 20°C

Product Code	Kinematic Viscosity mm ² /s (cSt)	Dynamic Viscosity mPa·s (cP)	Density (g/mL)	DIN CUP		FORD CUP		ISO CUP		SHELL CUP		ZAHN CUP	
				Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)
C6	10.43	8.579	0.8225			1	56.3	3	36.1	1	59.2	1	38.5
										2	23.1		
C10	20.55	17.27	0.8403			1	76.9	3	54.6	2	40.7	1	47.7
										2.5	25.2		
C20	41.92	35.55	0.8480			2	47.1	3	99.2	2.5	48.3	1	67.1
										4	34.8		
										3	29.8		
C35	84.94	72.59	0.8546			2	77	4	64.3	2.5	94.8	2	38.3
										3	43.4		
										3.5	58.3		
										4	25.6		
C60	157.1	135.0	0.8596	4mm	37	2	127.1	4	115.9	3.5	73.9	2	58.9
										4	46.5		
										5	25.2		
C100	324.1	280.3	0.8649	4mm	72.3	4	88.7	5	99.5	4	94.9	2	106.6
										5	50.9		
										6	20.5		
C200	630.0	546.2	0.8670	4mm	138.6	5	54.1	6	92.2	5	97.9	3	61.3
										6	39.4		
										5	27.4		
C350	1197	1046	0.8738			5	100.9			6	74.4	4	85.9
										5	52		
C600	2141	1875	0.8758									5	93.1

Please check website for up-to-date information

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Flow Cup Viscosity Standards Certified Values 25°C

Product Code	Kinematic Viscosity mm ² /s (cSt)	Dynamic Viscosity mPa·s (cP)	Density (g/mL)	DIN CUP		FORD CUP		ISO CUP		SHELL CUP		ZAHN CUP					
				Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)	Size	Drain Time(s)				
C6	8.838	7.239	0.8191			1	53	3	33.4	1	52.1	1	37				
										2	20.3						
C10	16.80	14.06	0.0837			1	69.3	3	47.4	2	34.2	1	44.3				
										2.5	21.2						
C20	33.07	27.94	0.8448			2	41	3	80.3	2.5	38.8	1	59.1				
								4	29.1	3	23.9			2	23.4		
																3.5	16.7
C35	72.59	55.19	0.8514			2	63	4	50.2	2.5	73.1	2	32.5				
						3	34.6			3	44.9						
														3.5	31.4		
														4	19.8		
C60	135.0	100.1	0.8565	4mm	29	2	99.2	4	87	3.5	55.4	2	47.4				
						3	57.2			5	37.4			4	34.9	3	17.5
												4	34.9			5	19
C100	234.3	201.9	0.8618	4mm	53.1	4	65.3	5	72.4	4	68.9	2	80.9				
						5	21.4			6	36.2			5	37	3	27.5
																6	15
C200	446.3	385.6	0.8639	4mm	98.7	5	38.9	6	65.9	5	69.7	3	45.6				
										6	28			4	35.2		
C350	824.2	717.7	0.8708			5	70.1			6	51.4	4	60.7				
																5	35.8
C600	1456	1271	0.8728									5	63.3				

Please check website for up-to-date information

General Purpose Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified general purpose viscosity standards are tested in accordance with ASTM D 2162, ("Standard Practice for basic calibration of master viscometers and viscosity standard oils"). They are fully traceable to national standards and are test equipment compatible.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in accordance with ASTM D 2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in accordance with ASTM D 1480
- Kinematic (cSt), Dynamic Viscosity (mPa·s) & Density (g/mL) given at all temperatures
- Standard Pack Size 500mL, available also in 5L, 10L and 20L
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- Tamper evident security packaging
- Holographically marked to assure authenticity
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch



General Purpose Viscosity Reference Standards

Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	SFS	SUS
N 0.4	20°C	0.4724	0.3151	0.6670	-	-
	25°C	0.4525	0.2998	0.6625	-	-
	37°C	0.4075	0.2652	0.6507	-	-
	40°C	0.4003	0.2597	0.6487	-	-
N 0.8	20°C	0.7275	0.5162	0.7096	-	-
	25°C	0.6900	0.4868	0.7055	-	-
	37°C	0.6075	0.4220	0.6948	-	-
	40°C	0.5949	0.4123	0.6930	-	-
N 1.0	20°C	1.327	1.024	0.7716	-	-
	25°C	1.236	0.9141	0.7679	-	-
	37°C	1.044	0.7916	0.7582	-	-
	40°C	1.016	0.7686	0.7565	-	-
	50°C	0.9036	0.6767	0.7489	-	-
N2	20°C	2.437	1.955	0.8021	-	-
	25°C	2.216	1.770	0.7986	-	-
	37°C	1.776	1.402	0.7893	-	-
	40°C	1.715	1.351	0.7876	-	-
	50°C	1.476	1.152	0.7806	-	-
S3	20°C	4.550	3.691	0.8112	-	-
	25°C	4.025	3.251	0.8077	-	-
	37°C	3.034	2.424	0.7988	-	36.00
	40°C	2.903	2.315	0.7974	-	-
	50°C	2.406	1.902	0.7904	-	-
	60°C	2.034	1.594	0.7835	-	-
	80°C	1.521	1.170	0.7695	-	-
	98°C	1.207	0.9129	0.7563	-	-
	100°C	1.190	0.8990	0.7555	-	-
D5	20°C	6.591	5.370	0.8148	-	-
	25°C	5.722	4.643	0.8115	-	-
	37°C	4.153	3.334	0.8027	-	-
	40°C	3.949	3.164	0.8013	-	-
	50°C	3.195	2.538	0.7945	-	-
	60°C	2.647	2.085	0.7877	-	-
	80°C	1.918	1.485	0.7741	-	-
	98°C	1.488	1.133	0.7611	-	-
	100°C	1.468	1.116	0.7605	-	-

Please check website for up-to-date information

Cont...

Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	SFS	SUS
S6	20°C	10.43	8.579	0.8225	-	-
	25°C	8.838	7.239	0.8191	-	-
	37°C	6.085	4.933	0.8107	-	45.90
	40°C	5.737	4.642	0.8092	-	-
	50°C	4.497	3.608	0.8024	-	-
	60°C	3.627	2.886	0.7958	-	-
	80°C	2.518	1.970	0.7825	-	-
	98°C	1.897	1.461	0.7699	-	-
	100°C	1.868	1.437	0.7692	-	-
D10	20°C	14.93	12.44	0.8333	-	-
	25°C	12.42	10.31	0.8330	-	-
	37°C	8.207	6.743	0.8216	-	-
	40°C	7.693	6.309	0.8201	-	-
	50°C	5.880	4.784	0.8136	-	-
	60°C	4.641	3.745	0.8070	-	-
	80°C	3.115	2.473	0.7939	-	-
	98°C	2.292	1.791	0.7814	-	-
	100°C	2.255	1.761	0.7808	-	-
N10	20°C	20.55	17.27	0.8403	-	-
	25°C	16.80	14.06	0.8370	-	-
	37°C	10.67	8.841	0.8286	-	-
	40°C	9.949	8.229	0.8271	-	-
	50°C	7.425	6.094	0.8207	-	-
	60°C	5.742	4.675	0.8141	-	-
	80°C	3.735	2.992	0.8012	-	-
	98°C	2.687	2.120	0.7888	-	-
	100°C	2.641	2.081	0.7881	-	-
S20	20°C	41.92	35.55	0.8480	-	-
	25°C	33.07	27.94	0.8448	-	-
	37°C	19.42	16.25	0.8366	-	95.40
	40°C	17.88	14.93	0.8352	-	-
	50°C	12.68	10.51	0.8287	-	-
	60°C	9.938	7.730	0.8225	-	-
	80°C	5.701	4.617	0.8098	-	-
	98°C	3.909	3.119	0.7979	-	-
	100°C	3.833	3.056	0.7972	-	-
N35	20°C	84.94	72.59	0.8546	-	-
	25°C	64.82	55.19	0.8514	-	-
	37°C	35.49	29.93	0.8434	-	166.3
	40°C	32.29	27.19	0.8420	-	-
	50°C	21.85	18.26	0.8358	-	-
	60°C	15.53	12.88	0.8296	-	-
	80°C	8.823	7.208	0.8170	-	-
	98°C	5.761	4.639	0.8052	-	-
	100°C	5.634	4.533	0.8046	-	-

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Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	SFS	SUS
S60	20°C	157.1	135.0	0.8596	-	-
	25°C	116.9	100.1	0.8565	-	-
	37°C	59.94	50.87	0.8486	-	278.0
	40°C	54.01	45.75	0.8471	-	-
	50°C	35.03	29.46	0.8410	-	-
	60°C	24.00	20.04	0.8350	-	-
	80°C	12.82	10.54	0.8225	-	-
	98°C	8.011	6.496	0.8109	-	-
	100°C	7.815	6.332	0.8103	-	-
N100	20°C	324.1	280.3	0.8649	-	-
	25°C	234.3	201.9	0.8618	-	-
	37°C	112.5	96.08	0.8540	-	522.0
	40°C	100.2	85.43	0.8526	-	-
	50°C	62.24	52.69	0.8465	-	-
	60°C	40.99	34.45	0.8405	-	-
	80°C	20.51	16.99	0.8284	-	-
	98°C	12.22	9.983	0.8169	-	-
	100°C	11.89	9.706	0.8163	-	-
S200	20°C	630.0	546.2	0.8670	-	-
	25°C	446.3	385.6	0.8639	-	-
	37°C	204.0	174.7	0.8562	-	945.0
	40°C	180.4	154.2	0.8548	-	-
	50°C	108.1	91.77	0.8489	-	-
	60°C	68.98	58.14	0.8429	-	-
	80°C	32.70	27.17	0.8310	-	-
	98°C	18.66	15.30	0.8197	-	92.80
	100°C	18.13	14.85	0.8190	-	-
D500	20°C	820.9	714.7	0.8706	-	-
	25°C	574.1	498.1	0.8676	-	-
	40°C	224.5	192.8	0.8587	-	-
	50°C	132.1	112.6	0.8527	-	-
	100°C	20.79	17.11	0.8231	-	-
N350	20°C	1189	1038	0.8726	-	-
	25°C	822.0	714.8	0.8696	-	-
	37°C	355.0	306.0	0.8619	-	1645
	40°C	311.1	267.7	0.8606	-	-
	50°C	179.3	153.2	0.8546	-	-
	60°C	110.5	93.79	0.8488	-	-
	80°C	49.36	41.31	0.8370	-	-
	98°C	27.00	22.30	0.8259	-	129.0
	100°C	26.14	21.57	0.8253	-	-

Please check website for up-to-date information

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Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	SFS	SUS
D1000	20°C	1689	1477	0.8746	-	-
	25°C	1156	1008	0.8716	-	-
	40°C	423.9	365.7	0.8627	-	-
	50°C	240.0	205.6	0.8567	-	-
	100°C	32.51	26.91	0.8277	-	-
S600	20°C	2141	1875	0.8758	-	-
	25°C	1456	1271	0.8728	-	-
	37°C	601.9	520.9	0.8654	-	-
	40°C	523.9	452.6	0.8639	-	-
	50°C	293.2	251.6	0.8581	138.4	-
	60°C	175.5	149.6	0.8523	-	-
	80°C	74.55	62.67	0.8407	-	-
	98°C	39.16	32.49	0.8297	-	182.9
	100°C	37.85	31.38	0.8290	-	-
N1000	20°C	4490	3955	0.8809	-	-
	25°C	2981	2618	0.8781	-	-
	37°C	1165	1014	0.8707	-	-
	40°C	1004	872.8	0.8693	-	-
	50°C	537.8	464.4	0.8636	-	-
	60°C	309.0	265.1	0.8580	-	-
	80°C	122.2	103.5	0.8466	-	-
	98°C	60.70	50.74	0.8359	-	-
	100°C	58.52	48.87	0.8351	-	-
S2000	20°C	7946	7015	0.8828	-	-
	25°C	5222	4595	0.8800	-	-
	37°C	1983	1731	0.8727	-	-
	40°C	1700	1481	0.8714	-	-
	50°C	889.6	770.3	0.8659	-	-
	60°C	499.2	429.4	0.8601	-	-
	80°C	188.8	160.3	0.8488	-	-
	98°C	90.25	75.65	0.8382	-	-
	100°C	86.80	72.70	0.8376	-	-
D5000	20°C	8656	7645	0.8832	-	-
	25°C	5683	5003	0.8804	-	-
	37°C	2158	1884	0.8731	-	-
	40°C	1849	1612	0.8716	-	-
	50°C	966.7	837.2	0.8660	-	-
	60°C	541.6	465.9	0.8603	-	-
	80°C	204.0	173.2	0.8491	-	-
	98°C	97.22	81.51	0.8384	-	-
	100°C	93.50	78.33	0.8378	-	-

Please check website for up-to-date information

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Product Code	Temperature	Kinematic mm ² /s (cSt)	Dynamic mPa·s (cP)	Density g/mL	SFS	SUS
D7500	20°C	13383	11859	0.8861	-	-
	25°C	8702	7686	0.8833	-	-
	37°C	3207	2809	0.8760	-	-
	40°C	2735	2393	0.8749	-	-
	50°C	1397	1214	0.8692	-	-
	60°C	765.5	661.2	0.8637	-	-
	80°C	276.5	235.7	0.8524	-	-
	98°C	127.1	107.0	0.8419	-	-
	100°C	122.0	102.6	0.8413	-	-
N4000	20°C	17966	15957	0.8882	-	-
	25°C	11627	10296	0.8855	-	-
	37°C	4216	3702	0.8780	-	-
	40°C	3589	3147	0.8769	-	-
	50°C	1811	1578	0.8713	-	-
	60°C	981.2	849.4	0.8657	-	-
	80°C	345.9	295.6	0.8547	-	-
	98°C	155.4	131.2	0.4420	-	-
	100°C	149.1	125.8	0.8436	-	-
S8000	20°C	35264	31427	0.8912	-	-
	25°C	22566	20050	0.8885	-	-
	37°C	7981	7034	0.8813	-	-
	40°C	6748	5938	0.8800	-	-
	50°C	3327	2910	0.8747	-	-
	60°C	1760	1530	0.8692	-	-
	80°C	588.8	505.4	0.8584	-	-
	98°C	252.5	214.2	0.8482	-	-
	100°C	241.4	204.6	0.8476	-	-
N15000	20°C	70582	63157	0.8948	-	-
	25°C	44855	40006	0.8919	-	-
	37°C	15541	13754	0.8850	-	-
	40°C	13087	11566	0.8838	-	-
	50°C	6342	5571	0.8784	-	-
	60°C	3289	2872	0.8731	-	-
	80°C	1054	908.9	0.8623	-	-
	98°C	433.5	369.5	0.8523	-	-
	100°C	413.1	351.8	0.8517	-	-
S30000	25°C	79747	71382	0.8951	-	-
	37°C	27285	24237	0.8883	-	-
	40°C	22946	20355	0.8871	-	-
	50°C	10993	9693	0.8817	-	-
	60°C	5623	4929	0.8765	-	-
	80°C	1756	1521	0.8659	-	-
	98°C	700.1	599.3	0.8560	-	-
	100°C	666.5	570.0	0.8552	-	-

Please check website for up-to-date information

Low Temperature Viscosity Standards

These standards are widely used for the verification of viscometers at sub zero temperatures on a routine basis. Paragon ISO 17025 / ISO Guide 34 dual certified, the use of these standards can also help provide confidence in overall system functionality including bath uniformity, bath stability, temperature measurement, timer accuracy and viscometer calibration.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Standard Pack Size 500mL, available also in 5L, 10L and 20L
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- Tamper evident security packaging
- Holographically marked to assure authenticity
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch

Low Temperature Viscosity Standards					
Product Code	Temp °C	Temp °F	Kinematic Viscosity mm ² s (cSt)	Dynamic Viscosity mPa·s (cP)	Density g/mL
JF1	-20.00	-4.00	3.716		
JF2	-40.00	-40.00	7.172		
J10	-40.00	-40.00	898.0		
J13	-10.00	14.00	309.8		
N2B	0.00	32.00	3.813	3.113	0.8163
	-20.00	-4.00	6.951	5.778	0.8312
N14B	-25.00	-13.00	1749	1605	
	-30.00	-22.00	3531	3252	
	-35.00	-35.00	7717	7133	
	-40.00	-40.00	18577	17234	
N27B	-17.78	0.00	1251	1147	0.9169
	-23.33	-10.00	2572	2368	0.9205
	-26.11	-15.00	3808	3513	0.9225
	-28.89	-20.00	5765	5329	0.9243
	-34.44	-30.00	14348	13315	0.9280
	-40.00	-40.00	40141	37395	0.9316
N105B	-19.00	-2.20	30679	26617	0.8676
	-19.50	-3.10	32543	28247	0.8680
	-20.00	-4.00	34518	29967	0.8682
	-20.50	-4.90	36643	31824	0.8685
	-21.00	-5.80	38897	33794	0.8688
	-25.00	-13.00	64477	56192	0.8715

Please check website for up-to-date information

Cont...

Low Temperature Viscosity Standards

Product Code	Temp °C	Temp °F	Kinematic Viscosity mm ² s (cSt)	Dynamic Viscosity mPa.s (cP)	Density g/mL
N115B	-6.67	20.00	11054	9533	0.8624
	-12.22	10.00	19758	17108	0.8659
	-17.78	0.00	37204	32353	0.8696
	-23.33	-10.00	74636	65157	0.8730
	-26.11	-15.00	109055	95380	0.8746
	-28.89	-20.00	162919	142782	0.8764
N120B	-39.00	-38.20	145950	127779	0.8755
	-39.50	-39.10	158130	138474	0.8757
	-40.00	-40.00	171623	150342	0.8760
	-40.50	-40.90	186276	163234	0.8763
	-41.00	-41.80	202414	177436	0.8766
N400B	-24.00	-11.20	59860	52340	0.8744
	-24.50	-12.10	63970	55950	0.8747
	-25.00	-13.00	68480	59920	0.8750
	-25.50	-13.90	73170	64050	0.8753
	-26.00	-14.80	78180	68450	0.8756
N480B	-25.00	-13.00	128500	120400	0.9373
	-25.50	-13.90	142500	133600	0.9376
	-26.00	-14.80	158200	148400	0.9378
	-26.11	-15.00	162600	152500	0.9380
	-26.50	-15.70	175200	164400	0.9383
	-27.00	-16.60	196000	184000	0.9386
N1400B	-11.00	12.20	136512	126191	0.9244
	-11.50	11.30	148141	136986	0.9247
	-12.00	10.40	161693	149566	0.9250
	-12.22	10.00	167815	155246	0.9251
	-12.50	9.50	176115	162959	0.9253
	-13.00	8.60	192125	177850	0.9257

Please check website for up-to-date information

Medical Viscosity Standards

Tested in accordance with ASTM D 2162, the primary method for viscosity standards calibration. These medical grade viscosity standards are fully traceable to national standards and are also test equipment compatible.

Typically used, but not limited to the calibration and verification of viscosity measuring equipment used for measuring the viscosity of blood plasma.

- Certified according to ISO 17025 under UKAS accreditation
- Pack size available in 100mL and 500mL
- Full traceability to national standards
- 1 year shelf life
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch

Medical Grade Viscosity Standards (MGVS)			
Product Code	Dynamic Viscosity (mPa.s) 25.00°C	Dynamic Viscosity (mPa.s) 37.00°C	Pack Size
MGVS12-100	1.2	0.9	100mL
MGVS12-500	1.2	0.9	500mL
MGVS16-100	1.6	1.2	100mL
MGVS16-500	1.6	1.2	500mL
MGVS20-100	2.0	1.5	100mL
MGVS20-500	2.0	1.5	500mL
MGVS30-100	3.0	2.1	100mL
MGVS30-500	3.0	2.1	500mL
MGVS40-100	4.0	2.8	100mL
MGVS40-500	4.0	2.8	500mL
MGVS100-100	10.0	6.3	100mL
MGVS100-500	10.0	6.3	500mL

Please check website for up-to-date information

Rotational Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified silicone viscosity standards are specifically formulated for use with rotational viscometers. Supplied in 600mL 'ready to use' packs specially designed to eliminate the requirement to transfer the sample to a test beaker.

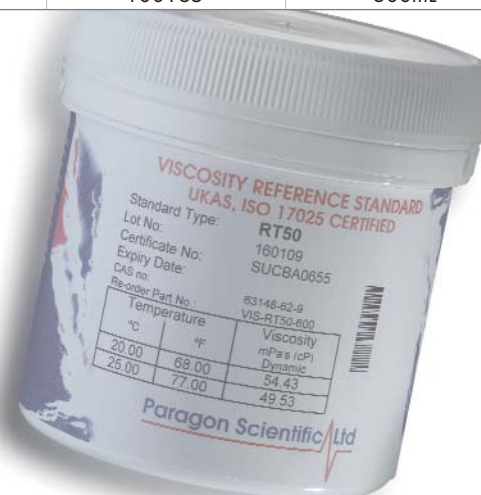
Safer working, less mess, less waste, higher throughput.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- 600mL of product supplied in a ready to use 'test in pack' container
- Tested and certified at 20°C and 25°C
- 1 year shelf life
- Ensures full compliance to international test method protocol
- Full traceability to national standards
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Custom blending available
- In stock and available for immediate dispatch

Rotational Viscosity Standards

Product Code	Type	mPa.s (cP) 20°C	mPa.s (cP) 25°C	Pack Size
VIS-RT5-600	RT5	5.533	5.062	600mL
VIS-RT10-600	RT10	11.03	10.04	600mL
VIS-RT50-600	RT50	56.04	50.90	600mL
VIS-RT75-600	RT75	84.55	77.03	600mL
VIS-RT100-600	RT100	111.7	100.7	600mL
VIS-RT250-600	RT250	277.4	251.5	600mL
VIS-RT350-600	RT350	395.0	357.0	600mL
VIS-RT500-600	RT500	551.3	499.9	600mL
VIS-RT1K-600	RT1000	1110	1001	600mL
VIS-RT5K-600	RT5000	5523	4984	600mL
VIS-RT10K-600	RT10000	11142	10040	600mL
VIS-RT12K-600	RT12000	14159	12769	600mL
VIS-RT30K-600	RT30000	33116	30022	600mL
VIS-RT60K-600	RT60000	67075	60445	600mL
VIS-RT100K-600	RT100000	111096	100165	600mL

Please check website for up-to-date information



Special Blend Viscosity Standards

If you have a requirement for different temperatures or viscosity values we may be able to offer you a solution. We also offer highly competitive rates for viscosity standard bulk blending where customers wish to have a supply of carefully prepared and guaranteed homogeneous Newtonian materials for use on a daily or high frequency basis.

There are many packaging options; from easy to use 100mL bottles for highly viscous materials where heating is necessary to load samples, to 2500mL safe-break Winchester bottles for use 'on plant' with in-line viscometers.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to national standards
- 2 year shelf life
- Ensures full compliance to ASTM & IP test method protocol
- Tamper evident security packaging
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch

Custom Blend Viscosity Standards

Product Code	Custom Certification	Pack Size
P600W250F	Custom Viscosity Standard (600 cSts (545 mPa·s) @ 250°F)	500mL
P1000250F	Custom Viscosity Standard (1000 cSts (840 mPa·s) @ 250°F)	500mL
D300W150C	Custom Viscosity Standard (290 mPa·s (350 cSts) @ 150°C)	500mL
P400W135C	Custom Viscosity Standard (400 cSts (340 mPa·s) @ 135°C)	500mL
P1700W100C	Custom Viscosity Standard (1700 cSts @ 100°C)	500mL
P150W150C	Custom Viscosity Standard (150 cSts @ 150°C)	500mL
D170W25C	Custom Viscosity Standard (170 mPa·s (198 cSts) @ 25°C)	500mL
D270W20C	Custom Viscosity Standard (270 mPa·s (313 cSts) @ 25°C)	500mL
D200W20C	Custom Viscosity Standard (200 mPa·s (234 cSts) @ 20°C)	500mL
P230W20C	Custom Viscosity Standard (230 cSts (200 mPa·s) @ 20°C)	500mL
P100W70C	Custom Viscosity Standard (100 cSts @ 70°C)	500mL
P1-15-100C	Custom Viscosity Standard (15 cSts @ 100°C)	500mL

We offer custom blending and manufacture of standards for various applications, including Density, Total Acid Number (TAN), Total Base Number (TBN) & Sucrose Refractive Index standards. If your requirement falls outside of our normal product range we can offer custom manufacture.

Please check website for up-to-date information

Density Standards

Paragon ISO 17025 / ISO Guide 34 dual certified Density standards are for the verification of instruments used to measure density of materials which are fluid at the desired test temperature within the range of 15°C to 150°C.

- Certified ISO 17025 / ISO Guide 34 under UKAS between 15°C to 100°C
- Density tested in accordance with ASTM D 1480
- Ensures full compliance to ASTM and IP test method protocols
- Supplied in tamper evident packaging with a 2 year shelf life
- Available as single bottle packs or triple pack kits
- Holographically marked to assure authenticity
- Manufactured in the United Kingdom
- Density testing service available
- In stock and available for immediate dispatch

Density Standards 15°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN15-K1	0.7136, 0.8056, 0.8788	3 x 100mL
PDEN15-1	0.7136	100mL
PDEN15-3	0.8056	100mL
PDEN15-5	0.8435	100mL
PDEN15-8	0.8788	100mL

Please check website for up-to-date information

Density Standards 20°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN20K1	0.8021, 0.8333, 0.8706	3 x 100mL
PDEN20-1	0.6732	100mL
PDEN20-2	0.7096	100mL
PDEN20-3	0.7762	100mL
PDEN20-4	0.8021	100mL
PDEN20-5	0.8112	100mL
PDEN20-6	0.8148	100mL
PDEN20-7	0.8272	100mL
PDEN20-8	0.8333	100mL
PDEN20-9	0.8403	100mL
PDEN20-10	0.8480	100mL
PDEN20-11	0.8580	100mL
PDEN20-12	0.8623	100mL
PDEN20-13	0.8668	100mL
PDEN20-14	0.8714	100mL
PDEN20-15	0.8706	100mL

Please check website for up-to-date information

Density Standards 25°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN25-K1	0.7986, 0.8300, 0.8676	3 x 100mL
PDEN25-1	0.6687	100mL
PDEN25-2	0.7055	100mL
PDEN25-3	0.7724	100mL
PDEN25-4	0.7986	100mL
PDEN25-5	0.8077	100mL
PDEN25-6	0.8115	100mL
PDEN25-7	0.8238	100mL
PDEN25-8	0.8300	100mL
PDEN25-9	0.8370	100mL
PDEN25-10	0.8448	100mL
PDEN25-11	0.8555	100mL
PDEN25-12	0.8613	100mL
PDEN25-13	0.8638	100mL
PDEN25-14	0.8684	100mL
PDEN25-15	0.8676	100mL

Please check website for up-to-date information

Density Standards 40°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN40-K1	0.7876, 0.8201, 0.8587	3 x 100mL
PDEN40-1	0.6548	100mL
PDEN40-2	0.6930	100mL
PDEN40-3	0.7609	100mL
PDEN40-4	0.7876	100mL
PDEN40-5	0.7974	100mL
PDEN40-6	0.8013	100mL
PDEN40-7	0.8137	100mL
PDEN40-8	0.8201	100mL
PDEN40-9	0.8271	100mL
PDEN40-10	0.8352	100mL
PDEN40-11	0.8460	100mL
PDEN40-12	0.8520	100mL
PDEN40-13	0.8547	100mL
PDEN40-14	0.8592	100mL
PDEN40-15	0.8587	100mL

Please check website for up-to-date information

Density Standards 50°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN50-K1	0.7806, 0.8136, 0.8527	3 x 100mL
PDEN50-1	0.7533	100mL
PDEN50-2	0.7806	100mL
PDEN50-3	0.7904	100mL
PDEN50-4	0.7945	100mL
PDEN50-5	0.8071	100mL
PDEN50-6	0.8136	100mL
PDEN50-7	0.8207	100mL
PDEN50-8	0.8287	100mL
PDEN50-9	0.8397	100mL
PDEN50-10	0.8457	100mL
PDEN50-11	0.8486	100mL
PDEN50-12	0.8533	100mL
PDEN50-13	0.8527	100mL

Please check website for up-to-date information

Density Standards 60°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN60-K1	0.7988, 0.8328, 0.8608	3 x 100mL
PDEN60-1	0.7988	100mL
PDEN60-2	0.8141	100mL
PDEN60-3	0.8225	100mL
PDEN60-4	0.8320	100mL
PDEN60-5	0.8395	100mL
PDEN60-6	0.8425	100mL
PDEN60-7	0.8474	100mL
PDEN60-8	0.8487	100mL
PDEN60-9	0.8510	100mL
PDEN60-10	0.8523	100mL
PDEN60-11	0.8608	100mL

Please check website for up-to-date information

Density Standards 80°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN80-K1	0.7695, 0.8012, 0.8353	3 x 100mL
PDEN80-1	0.7695	100mL
PDEN80-2	0.7871	100mL
PDEN80-3	0.8012	100mL
PDEN80-4	0.8098	100mL
PDEN80-5	0.8208	100mL
PDEN80-6	0.8272	100mL
PDEN80-7	0.8304	100mL
PDEN80-8	0.8353	100mL

Please check website for up-to-date information

Density Standards 100°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN100-K1	0.7555, 0.7972, 0.8231	3 x 100mL
PDEN100-1	0.7555	100mL
PDEN100-2	0.7605	100mL
PDEN100-3	0.7738	100mL
PDEN100-4	0.7808	100mL
PDEN100-5	0.7881	100mL
PDEN100-6	0.7972	100mL
PDEN100-7	0.8084	100mL
PDEN100-8	0.8148	100mL
PDEN100-9	0.8184	100mL
PDEN100-10	0.8235	100mL
PDEN100-11	0.8231	100mL

Please check website for up-to-date information

Density Standards 150°C

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN150-1	0.7196	100mL
PDEN150-2	0.7351	100mL
PDEN150-3	0.7651	100mL
PDEN150-4	0.7795	100mL
PDEN150-5	0.7861	100mL
PDEN150-6	0.7893	100mL
PDEN150-7	0.8000	100mL
PDEN150-8	0.8093	100mL
PDEN150-9	0.8205	100mL
PDEN150-10	0.8289	100mL
PDEN150-11	0.7554	100mL

Please check website for up-to-date information



Density Standards Triple Pack Kits

Product Code	Nominal Certified Value g/mL	Pack Size
PDEN20-K1	0.8021, 0.8333, 0.8706	3 x 100mL*
PDEN25-K1	0.7986, 0.8300, 0.8676	3 x 100mL*
PDEN40-K1	0.7876, 0.8201, 0.8587	3 x 100mL*
PDEN50-K1	0.7806, 0.8136, 0.8527	3 x 100mL*
PDEN60-K1	0.7988, 0.8328, 0.8608	3 x 100mL*
PDEN80-K1	0.7695, 0.8012, 0.8353	3 x 100mL*
PDEN100-K1	0.7555, 0.7972, 0.8231	3 x 100mL*
PDEN150-K1	0.7196, 0.7795, 0.8289	3 x 100mL*
PDEN150-K2	0.7196, 0.7351, 0.7554	3 x 100mL*

Please check website for up-to-date information

***Also available in 500mL pack size.**



Certified Reference Materials (CRM's)

Ensures good inter-laboratory correlation. Full traceability to national standards.
Manufactured using independent testing laboratories across Europe.

- Tested in accordance with ASTM / EN or IP test methods
- Certified by Round Robin Method by independent test laboratories
- Ensures good interlaboratory correlation
- Supplied in tamper evident UN compliant security pack
- Supplied in varying pack sizes from 50mL to 1000mL
- 1 year shelf life

Cold Filter Plugging Points (CFPP) Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Cold Filter Plugging Point ASTM D 6371 - EN 116.

Cold Filter Plugging Point Standard				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-CFGO-4	CFPP ASTM D 6371; EN 116 / IP 309	Diesel	-19.3°C	250mL

Please check website for up-to-date information

Cloud Point Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Cloud Point ASTM D 2500.

Cloud Point Standard				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-CPGO-5	Cloud Point ASTM D 2500; NF EN23015	Diesel	-6.5°C	250mL

Please check website for up-to-date information

Density Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Density ASTM D 4052.

Density Standards				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-DEGA-6	Density ASTM D 4052; ISO 12185	Gasoline (Unleaded)	0.7376 g/mL @ 15°C	250mL
CRM-DEGO-4	Density ASTM D 4052; ISO 12185	Diesel	0.8299 g/mL @ 15°C	250mL
CRM-DEKR-4	Density ASTM D 4052; ISO 12185	Jet Aviation Fuel	0.7951 g/mL @ 15°C	250mL
CRM-DELU-2	Density ASTM D 4052; ISO 12185	Lubricant	0.8837 g/mL @ 15°C	250mL

Please check website for up-to-date information

Distillation Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Distillation ASTM D 86; NF EN ISO 3405.

Distillation Standards				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-DIGO-4	Distillation ASTM D 86; NF EN ISO 3405	Diesel	163°C - 357°C	250mL
CRM-DIGA-6	Distillation ASTM D 86; NF EN ISO 3405	Gasoline (unleaded)	30°C - 184°C	250mL
CRM-DIKR-3	Distillation ASTM D 86; NF EN ISO 3405	Jet Aviation Fuel	151°C - 255°C	250mL

Please check website for up-to-date information

Element/Chemical Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Sulphur Content.

Element/Chemical Standards				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-SUGO-2	Sulphur Content ASTM D 5453, ISO 20846	Diesel	48.5 mg/kg	50mL
CRM-SUGO-4	Sulphur Content ASTM D 5433; ISO 20846	Diesel	309.0 mg/kg	50mL
CRM-SUGO-9	Sulphur Content ASTM D 5453; ISO 20846	Diesel	7.2 mg/kg	250mL
CRM-SUKR-2	Sulphur Content ASTM D 3227; ISO 3012	Jet Aviation Fuel	5.75 mg/kg	50mL

Please check website for up-to-date information

Flash Point Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Flash Point.

Flash Point Standards				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-ABKR-2	Abel Flash IP 170	Jet Aviation Fuel	40.8°C	250mL
CRM-FCLU-2	Cleveland Open Cup Flash ASTM D 92	Lubricant	265°C	250mL
CRM-PMGO-4	Pensky Martens Flash ASTM D 93	Diesel	57.3°C	250mL
CRM-PMLU-4	Pensky-Martens Flash ASTM D 93	Lubricant	203°C	250mL
CRM-TAKR-2	TAG Flash ASTM D 56	Jet Aviation Fuel	43.3°C	250mL

Please check website for up-to-date information

Freezing Point Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Freezing Point ASTM D 2386.

Freezing Point Standard				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-FRKR-3	Freezing Point ASTM D 2386	Jet Aviation fuel	-51.4°C	250mL

Please check website for up-to-date information



Fuels Testing Standards

For the calibration and verification of laboratory instruments used in testing petroleum fuels and derivative products. This range of Certified Reference Materials covers testing for:

- Acidity ASTM D 3242
- Aniline Point ASTM D 611
- Benzene Content ASTM D 4053 / D 5580
- Cetane Number ASTM D 613
- FIA Aromatics ASTM D 1319
- Motor Octane Number ASTM D 2700
- Res. Octane Number ASTM D 2699
- Reid Vapour Pres. ASTM D 4953A, 323A

Fuels Testing Standards				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-ADKR-2	Acidity ASTM D 3242	Jet Aviation Fuel	0.0023 mg KOH/g	250mL
CRM-APKR-4	Aniline Point ASTM D 611	Jet Aviation fuel	59.82°C	250mL
CRM-BEGA-4	Benzene Content ASTM D 4053 / D 5580	Gasoline	0.827 % Vol.	250mL
CRM-CNGO-3	Cetane Number ASTM D 613	Diesel	52.3	1000mL
CRM-FIKR-2	FIA Aromatics ASTM D 1319	Jet Aviation Fuel	14.67 % vol	250mL
CRM-OMGA-6	Motor Octane Number ASTM D 2700	Gasoline (Unleaded)	87.4	1000mL
CRM-ORGA-6	Res. Octane Number ASTM D 2699	Gasoline (Unleaded)	98.3	1000mL
CRM-VPGA-5	Reid Vapour Pres. ASTM D 4953A, 323A	Gasoline	82.6 kPa	250mL

Please check website for up-to-date information

Pour Point Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products for Pour Point ASTM D 97, NFT 60-105.

Pour Point Standard				
Product Code	Test Method	Product Nature	Certified Value	Pack Size
CRM-PPLU-1	Pour Point ASTM D 97, NFT 60-105	Lubricant	-8.5°C	250mL
CRM-PPGO-4	Pour Point ASTM D 97, NFT 60-105	Diesel	-30.6°C	250mL

Please check website for up-to-date information

X-Ray Standards

For the calibration and verification of laboratory instruments used in testing petroleum and derivative products.

X-ray Standard	
Product Code	Product Description
PS-SRF-1	Gasoline 150ml S in Reference fuel range: 0-1000 mg/kg (0; 50; 150; 300; 500; 750;1000; mg/kg)
PS-SHPL	Gasoil (Diesel Fuel) 150ml Low S in oil range: 0-700 mg/kg (0; 50; 100; 200; 350; 500; 700; mg/kg)
PS-SHP-2	Domestic Heating Oil 150ml S in hydrocarbon paraffinic range: 0-0,250 % m/m (0; 0.035; 0.050; 0.100; 0.150; 0.200; 0.250 % m/m)
PS-SHP-3	Petroleum Products 0-0,700 % M/M 150ml S in hydrocarbon paraffinic range: 0-0,700 % m/m (0; 0.40; 0.070; 0.100; 0.400; 0.700 %m/m)
PS-SHP-4	Petroleum Products 0-2,50 % M/M 150ml S in hydrocarbon paraffinic range: 0 - 2,50 % m/m (0; 0.400; 0.700; 1.00; 1.50; 2.00;2.50 %m/m)
PS-SHHP-5	Fuel Oil (MIDDLE, HEAVY) 150ml, S in hydrocarbon paraffinic range: 0 - 3.00 % m/m (0; 0.500; 1.00; 1.50; 2.00;2.50 %m/m)
PS-PBRF-1	Gasoline 0-30 mg/L 150ml, Pb in reference fuel range: 0 - 3mg/L (0; 5; 10; 15;25;30 mg/L)
PS-PBRF-2	Gasoline 0 - 0,20 g/L Each 0-30 mg/L 150ml, Pb in reference fuel range: 0 - 20g/L (0;0.1;0.05;0.10;0.15;0.20 mg/L)

Please check website for up-to-date information

Sucrose Brix/RI Standards

Paragon Scientific produces a range of sucrose standards for use in the calibration and verification of all types of refractometer e.g. handheld, Abbe and high accuracy digital instruments. Sucrose standards are manufactured using traceable high purity materials to four decimal places following ICUMSA methods. These are the first standards available worldwide which carry a full certification according to ISO 17025 and ISO Guide 34 under UKAS accreditation.

Paragon dual certified ISO 17025 / ISO Guide 34 brix standards are for the calibration and verification of all types of refractometer e.g. handheld, Abbe and high accuracy digital instruments.

Typically used within the food and beverage and pharmaceutical industries.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Primary refractive index standards traceable to national standards
- Manufactured in accordance with ICUMSA Methods
- Supplied in tamper evident packs with 6 weeks shelf life
- Manufactured in the United Kingdom
- Monthly delivery contracts available for economy, convenience and reliability

Sucrose Brix / RI Standards

Product Code	Shelf Life	Brix	Certified Value	Index	Pack Size
SS00	6 Weeks	-	Pure Water	1.33299	15mL*
SS05	6 Weeks	5.00	5.00 +/-0.02%	1.34026	15mL*
SS075	6 Weeks	7.50	7.50 +/-0.02%	1.34400	15mL*
SS10	6 Weeks	10.00	10.00 +/-0.02%	1.34782	15mL*
SS112	6 Weeks	11.20	11.20 +/-0.02%	1.34968	15mL*
SS115	6 Weeks	11.50	11.50 +/-0.02%	1.35015	15mL*
SS12	6 Weeks	12.00	12.00 +/-0.02%	1.35092	15mL*
SS125	6 Weeks	12.50	12.50 +/-0.02%	1.35171	15mL*
SS15	6 Weeks	15.00	15.00 +/-0.02%	1.35568	15mL*
SS20	6 Weeks	20.00	20.00 +/-0.02%	1.36384	15mL*
SS25	6 Weeks	25.00	25.00 +/-0.02%	1.37233	15mL*
SS30	6 Weeks	30.00	30.00 +/-0.02%	1.38115	15mL*
SS35	6 Weeks	35.00	35.00 +/-0.02%	1.39032	15mL*
SS40	6 Weeks	40.00	40.00 +/-0.02%	1.39986	15mL*
SS45	6 Weeks	45.00	45.00 +/-0.02%	1.40978	15mL*
SS50	6 Weeks	50.00	50.00 +/-0.02%	1.42009	15mL*
SS55	6 Weeks	55.00	55.00 +/-0.02%	1.43080	15mL*
SS60	6 Weeks	60.00	60.00 +/-0.02%	1.44193	15mL*

Please check website for up-to-date information

***Also available in 60, 100, 150 and 250mL pack size.**

Oil RI Standards

Calibration Oils are one of the most commonly used materials for calibrating refractometers as they have good traceability, particularly to NIST. Having a high temperature co-efficient, calibration oils are used where strict temperature control is adopted, either by Peltier or external waterbath between 10 and 75°C.

Calibration Oils are batch manufactured and so values may differ slightly from published data. Oils are supplied in multipacks of 5 x 5mL bottles with a certificate of calibration, MSDS and pipettes and have an expiry date 12 months from date of dispatch.

For refractometers operating at high temperatures where water starts to evaporate, an oil may be used as a zero calibration medium. Typical applications include those in the confectionery, edible oil and mineral oil marketplaces.

Reference – manufactured and certified by Bellingham + Stanley, certified according to ISO 17025 under UKAS accreditation.

Oil RI Standards

Product Code	Shelf Life	Nature	Temp	Certified Value Pack	Type	Pack Size
PS-RI-BSDC	12 Months	Silicone Fluid	20°C	1.51000 (nominal)	Glass	5 x 5mL
PS-RI-BSLP	12 Months	Liquid Parafin	20°C	1.46700 (nominal)	Glass	5 x 5mL
PS-RI-BSDD	12 Months	Silicone Fluid	20°C	1.56000 (nominal)	Glass	5 x 5mL

Please check website for up-to-date information



Colour Standards

These Standards are ideal for the calibration or verification of colour measuring instruments, ensuring good inter-laboratory or inter-instrument correlation.

The range of liquid standards includes AOCS-Tintometer, ASTM, Gardner, Lovibond RYBN, Pt-Co and Saybolt Colour, the key colour scales applied to oils, fuels and chemicals. They are supplied with full traceability to internationally recognised standards, either UKAS to ISO 17025 (ASTM, Gardner & Saybolt Colour) or the ISO 9001 quality system (AOCS-Tintometer, Lovibond RYBN and Pt-Co Colour). All standards are certified according to ISO Guide 34 under UKAS accreditation.

Lovibond colour reference standards are manufactured by Paragon Scientific Ltd, certified according to ISO Guide 34 under UKAS accreditation and certified by The Tintometer Limited.

AOCS-Tintometer Colour Reference Standards

- ISO Guide 34 certified under UKAS
- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

Product Code	Colour Scale	Nominal Value	Accreditation
134240	AOCS-Tintometer Colour	0.3R 1.7Y (5 ¹ / ₄ "	ISO 9001
134250	AOCS-Tintometer Colour	1.3R 8.8Y (5 ¹ / ₄ "	ISO 9001
134260	AOCS-Tintometer Colour	1.7R 12Y (5 ¹ / ₄ "	ISO 9001
134270	AOCS-Tintometer Colour	3.0R 22Y (5 ¹ / ₄ "	ISO 9001

Please check website for up-to-date information



ASTM (ASTM D 6045, D 1500) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 18 month shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

ASTM Colour (ASTM D 6045, D 1500) Colour Reference Standards

Product Code	Colour Scale	Nominal Value	Accreditation
134290	ASTM Colour	<0.5	UKAS ISO 17025
134000	ASTM Colour	1	UKAS ISO 17025
134010	ASTM Colour	3	UKAS ISO 17025
134020	ASTM Colour	5	UKAS ISO 17025
134030	ASTM Colour	7	UKAS ISO 17025

Please check website for up-to-date information

Gardner (ASTM D 1544, D 6166) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 18 month shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

Gardner (ASTM D 1544, D 6166) Colour Reference Standards

Product Code	Colour Scale	Nominal Value	Accreditation
134200	Gardner Colour	2	UKAS ISO 17025
134210	Gardner Colour	5	UKAS ISO 17025
134220	Gardner Colour	8	UKAS ISO 17025
133860	Gardner Colour	11	UKAS ISO 17025
133880	Gardner Colour	14	UKAS ISO 17025
133870	Gardner Colour	17	UKAS ISO 17025

Please check website for up-to-date information

Lovibond RYBN Colour Reference Standards

- ISO Guide 34 certified under UKAS
- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

Lovibond RYBN Colour Reference Standards

Product Code	Colour Scale	Nominal Value	Accreditation
134080	Lovibond RYBN Colour	0.4R 1.9Y 0.1N (5 ¹ / ₄ "	ISO 9001
134090	Lovibond RYBN Colour	1.0R 4.3Y 0.1N (5 ¹ / ₄ "	ISO 9001
134100	Lovibond RYBN Colour	1.4R 7.3Y 0.2 N (5 ¹ / ₄ "	ISO 9001
134110	Lovibond RYBN Colour	1.8R 11.0Y 0.1N (5 ¹ / ₄ "	ISO 9001
134120	Lovibond RYBN Colour	2.0R 14.0Y 0.1N (5 ¹ / ₄ "	ISO 9001
134130	Lovibond RYBN Colour	2.9R 22.0Y 0.5N (5 ¹ / ₄ "	ISO 9001

Please check website for up-to-date information

Pt-Co/Hazen/APHA (ASTM D 1209) Colour Reference Standards

- ISO Guide 34 certified under UKAS
- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

Pt-Co/Hazen/APHA Colour (ASTM D 1209) Colour Reference Standards

Product Code	Colour Scale	Nominal Value	Accreditation
134140	Pt-Co/Hazen/APHA Colour	5	ISO 9001
134150	Pt-Co/Hazen/APHA Colour	10	ISO 9001
134160	Pt-Co/Hazen/APHA Colour	15	ISO 9001
134170	Pt-Co/Hazen/APHA Colour	30	ISO 9001
134180	Pt-Co/Hazen/APHA Colour	50	ISO 9001
134190	Pt-Co/Hazen/APHA Colour	100	ISO 9001
462803	Pt-Co/Hazen/APHA Colour	500 (stock solution)	ISO 9001

Please check website for up-to-date information

Saybolt (ASTM D 6045, D 156) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 18 month shelf life
- Tamper evident security packaging
- Manufactured in the United Kingdom

Saybolt Colour (ASTM D 6045, D 156) Colour Reference Standards

Product Code	Colour Scale	Nominal Value	Accreditation
134040	Saybolt Colour	-10	UKAS ISO 17025
134050	Saybolt Colour	0	UKAS ISO 17025
134060	Saybolt Colour	12	UKAS ISO 17025
134070	Saybolt Colour	25	UKAS ISO 17025

Please check website for up-to-date information



Total Base Number (TBN) Standards

Paragon TBN Standards are specifically manufactured for the verification of analytical instruments used to determine base number by potentiometric titration.

- Typically used in, but not limited to, the analysis of used oils and lubricants
- Tested and certified in accordance with ASTM D 2896 / IP 276
- Fully traceable to international standards
- Supplied in tamper evident packaging with a 2 year shelf life
- Available as a triple pack
- In stock and available for immediate dispatch

Total Base Number Reference Standard

Product Code	Test Method	Certified Value	Pack Size
TBN1	ASTM D 2896	0.99 mg KOH/g	1 x 125g
TBN1/3	ASTM D 2896	0.99 mg KOH/g	3 x 125g
TBN3	ASTM D 2896	3.01 mg KOH/g	1 x 50g
TBN3/3	ASTM D 2896	3.01 mg KOH/g	3 x 50g
TBN6	ASTM D 2896	6.05 mg KOH/g	1 x 50g
TBN6/3	ASTM D 2896	6.05 mg KOH/g	3 x 50g
TBN10	ASTM D 2896	9.93 mg KOH/g	1 x 50g
TBN10/3	ASTM D 2896	9.93 mg KOH/g	3 x 50g
TBN15	ASTM D 2896	15.10 mg KOH/g	1 x 50g
TBN15/3	ASTM D 2896	15.10 mg KOH/g	3 x 50g
TBN30	ASTM D 2896	30.43 mg KOH/g	1 x 50g
TBN30/3	ASTM D 2896	30.43 mg KOH/g	3 x 50g
TBN40	ASTM D 2896	40.51 mg KOH/g	1 x 50g
TBN40/3	ASTM D 2896	40.51 mg KOH/g	3 x 50g
TBN70	ASTM D 2896	70.24 mg KOH/g	1 x 50g
TBN70/3	ASTM D 2896	70.24 mg KOH/g	3 x 50g

Please check website for up-to-date information



Total Acid Number (TAN) Standards

Paragon TAN standards are specifically manufactured for the verification of analytical instruments used to determine acid number by potentiometric titration.

- Typically used in, but not limited to, the analysis of used oils and lubricants
- Tested and certified in accordance with ASTM D 664 / IP 177
- Fully traceable to international standards
- Supplied in tamper evident packaging with a 2 year shelf life
- Available as a triple pack
- In stock and available for immediate dispatch

Total Acid Number Reference Standard

Product Code	Test Method	Certified Value	Pack Size
TAN001	ASTM D 664	0.096 mg KOH/g	1 x 125g
TAN001/3	ASTM D 664	0.096 mg KOH/g	3 x 125g
TAN005	ASTM D 664	0.48 mg KOH/g	1 x 125g
TAN005/3	ASTM D 664	0.48 mg KOH/g	3 x 125g
TAN010	ASTM D 664	0.99 mg KOH/g	1 x 125g
TAN010/3	ASTM D 664	0.99 mg KOH/g	3 x 125g
TAN015	ASTM D 664	1.53 mg KOH/g	1 x 125g
TAN015/3	ASTM D 664	1.53 mg KOH/g	3 x 125g
TAN020	ASTM D 664	2.03 mg KOH/g	1 x 50g
TAN020/3	ASTM D 664	2.03 mg KOH/g	3 x 50g
TAN025	ASTM D 664	2.48 mg KOH/g	1 x 50g
TAN025/3	ASTM D 664	2.48 mg KOH/g	3 x 50g
TAN030	ASTM D 664	2.96 mg KOH/g	1 x 50g
TAN030/3	ASTM D 664	2.96 mg KOH/g	3 x 50g
TAN050	ASTM D 664	4.57 mg KOH/g	1 x 50g
TAN050/3	ASTM D 664	4.57 mg KOH/g	3 x 50g

Please check website for up-to-date information



Laboratory Reagents

Lithium Chloride Electrolyte

A high quality analytical reagent manufactured and certified compliant for use in ASTM D 664 / IP 177, the "Standard Test Method for Acid Number of Petroleum products by Potentiometric Titration".

- A Lithium Chloride Electrolyte Analytical Reagent manufactured in accordance with ASTM D 664 / IP 177
- Provided with a certificate which includes an estimation of uncertainty of manufacture
- Ensures full compliance with ASTM and IP test method requirements for reagent preparation
- Convenient 30mL bottle size for direct filling into the electrode
- Multi pack option available
- Cost effective and time saving
- MSDS included
- 6 month shelf life

Lithium Chloride Electrolyte

Product Code	Certified Value	Pack Size
LCL-30-3	2M	3 x 30mL plastic bottles
LCL-30-5	2M	5 x 30mL plastic bottles
LCL-30-10	2M	10 x 30mL plastic bottles

Please check website for up-to-date information



Synthetic Sea Water

A high quality analytical reagent manufactured and certified compliant for use in ASTM D 665 / IP 135 the "Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water".

- A Synthetic Sea Water Analytical Reagent manufactured in accordance with ASTM D 665 / IP 135
- Provided with a certificate which includes an estimation of uncertainty of manufacture
- Ensures full compliance with ASTM and IP test method requirements for reagent preparation
- Conveniently packaged in single dose or multi dose packs
- Cost effective and time saving
- MSDS included
- 1 year shelf life

Synthetic Sea Water

Product Code	Pack Size
SSWS-30	10 x 30mL
SSWS-300	1 x 300mL
SSWS-500	1 x 500mL

Please check website for up-to-date information



Hydrometers

L 20 @ 15°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- L 20 series acc. to BS 718
- Ref. temperature (Tp.): 15°C
- Measuring div: 0.020 g/cm³
- Scale units: 0.0002 g/cm³
- Total length (L): 335 mm

L 20 @ 15°C Relative Density (SG) Hydrometers			
Product Code	Type	Range – g/mL	
HYD-3071201	L 20	0.600-0.620	
HYD-3071202	L 20	0.620-0.640	
HYD-3071203	L 20	0.640-0.660	
HYD-3071204	L 20	0.660-0.680	
HYD-3071205	L 20	0.680-0.700	
HYD-3071206	L 20	0.700-0.720	
HYD-3071207	L 20	0.720-0.740	
HYD-3071208	L 20	0.740-0.760	
HYD-3071209	L 20	0.760-0.780	
HYD-3071210	L 20	0.780-0.800	
HYD-3071101	L 20	0.800-0.820	
HYD-3071102	L 20	0.820-0.840	
HYD-3071103	L 20	0.840-0.860	
HYD-3071104	L 20	0.860-0.880	
HYD-3071105	L 20	0.880-0.900	
HYD-3071106	L 20	0.900-0.920	
HYD-3071107	L 20	0.920-0.940	
HYD-3071108	L 20	0.940-0.960	
HYD-3071109	L 20	0.960-0.980	
HYD-3071110	L 20	0.980-1.000	
HYD-3071111	L 20	1.000-1.020	
HYD-3071112	L 20	1.020-1.040	

Please check website for up-to-date information

L 20 @ 15°C Relative Density (SG) Hydrometers (cont'd)

Product Code	Type	Range – g/mL
HYD-3071113	L 20	1.040-1.060
HYD-3071114	L 20	1.060-1.080
HYD-3071115	L 20	1.080-1.100
HYD-3071116	L 20	1.100-1.120
HYD-3071117	L 20	1.120-1.140
HYD-3071118	L 20	1.140-1.160
HYD-3071119	L 20	1.160-1.180
HYD-3071120	L 20	1.180-1.200
HYD-3071121	L 20	1.200-1.220
HYD-3071122	L 20	1.220-1.240
HYD-3071123	L 20	1.240-1.260
HYD-3071124	L 20	1.260-1.280
HYD-3071125	L 20	1.280-1.300
HYD-3071126	L 20	1.300-1.320

Please check website for up-to-date information





M 50 @ 15°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- M 50 series acc. to BS 718
- Ref. temperature (Tp.): 15°C
- Measuring div: 0.050 g/cm³
- Scale units: 0.001 g/cm³
- Total length (L): 270 mm

M 50 @ 15°C Relative Density (SG) Hydrometers

Product Code	Type	Range – g/mL
HYD-3071321	M 50	0.600-0.650
HYD-3071322	M 50	0.650-0.700
HYD-3071323	M 50	0.700-0.750
HYD-3071324	M 50	0.750-0.800
HYD-3071151	M 50	0.800-0.850
HYD-3071152	M 50	0.850-0.900
HYD-3071153	M 50	0.900-0.950
HYD-3071154	M 50	0.950-1.000
HYD-3071155	M 50	1.000-1.050
HYD-3071156	M 50	1.050-1.100
HYD-3071157	M 50	1.100-1.150
HYD-3071158	M 50	1.150-1.200
HYD-3071159	M 50	1.200-1.250
HYD-3071160	M 50	1.250-1.300
HYD-3071161	M 50	1.300-1.350

Please check website for up-to-date information

L 50 @ 15°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- L 50 series acc. to BS 718
- Ref. temperature (T_p): 15°C
- Measuring div: 0.050 g/cm³
- Scale units: 0.0005 g/cm³
- Total length (L): 335 mm

L 50 @ 15°C Relative Density (SG) Hydrometers

Product Code	Type	Range – g/mL
HYD-3071211	L 50	0.600-0.650
HYD-3071212	L 50	0.650-0.700
HYD-3071213	L 50	0.700-0.750
HYD-3071214	L 50	0.750-0.800
HYD-3071131	L 50	0.800-0.850
HYD-3071132	L 50	0.850-0.900
HYD-3071133	L 50	0.900-0.950
HYD-3071134	L 50	0.950-1.000
HYD-3071135	L 50	1.000-1.050
HYD-3071136	L 50	1.050-1.100
HYD-3071137	L 50	1.100-1.150
HYD-3071138	L 50	1.150-1.200
HYD-3071139	L 50	1.200-1.250
HYD-3071140	L 50	1.250-1.300
HYD-3071141	L 50	1.300-1.350
HYD-3071142	L 50	1.350-1.400
HYD-3071143	L 50	1.400-1.450
HYD-3071144	L 50	1.450-1.500
HYD-3071145	L 50	1.500-1.550
HYD-3071146	L 50	1.550-1.600
HYD-3071147	L 50	1.600-1.650
HYD-3071148	L 50	1.650-1.700
HYD-3071149	L 50	1.700-1.750
HYD-3071150	L 50	1.750-1.800
HYD-3071215	L 50	1.800-1.850
HYD-3071216	L 50	1.850-1.900
HYD-3071217	L 50	1.900-1.950
HYD-3071218	L 50	1.950-2.000

Please check website for up-to-date information

L 20 @ 20°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- L 20 series acc. to DIN 12791
- Ref. temperature (Tp.): 20°C
- Measuring div: 0.020 g/cm³
- Scale units: 0.0002 g/cm³
- Total length (L): 430 mm

L 20 @ 20°C Relative Density (SG) Hydrometers		
Product Code	Type	Range – g/mL
HYD-3112001	L 20-060	0.600-0.620
HYD-3112002	L 20-062	0.620-0.640
HYD-3112003	L 20-064	0.640-0.660
HYD-3112004	L 20-066	0.660-0.680
HYD-3112005	L 20-068	0.680-0.700
HYD-3112006	L 20-070	0.700-0.720
HYD-3112007	L 20-072	0.720-0.740
HYD-3112008	L 20-074	0.740-0.760
HYD-3112009	L 20-076	0.760-0.780
HYD-3112010	L 20-078	0.780-0.800
HYD-3112011	L 20-080	0.800-0.820
HYD-3112012	L 20-082	0.820-0.840
HYD-3112013	L 20-084	0.840-0.860
HYD-3112014	L 20-086	0.860-0.880
HYD-3112015	L 20-088	0.880-0.900
HYD-3112016	L 20-090	0.900-0.920
HYD-3112017	L 20-092	0.920-0.940
HYD-3112018	L 20-094	0.940-0.960
HYD-3112019	L 20-096	0.960-0.980
HYD-3112020	L 20-098	0.980-1.000
HYD-3112021	L 20-100	1.000-1.020
HYD-3112022	L 20-102	1.020-1.040
HYD-3112023	L 20-104	1.040-1.060
HYD-3112024	L 20-106	1.060-1.080
HYD-3112025	L 20-108	1.080-1.100
HYD-3112026	L 20-110	1.100-1.120
HYD-3112027	L 20-112	1.120-1.140

Please check website for up-to-date information

L 20 @ 20°C Relative Density (SG) Hydrometers

Product Code	Type	Range – g/mL
HYD-3112028	L 20-114	1.140-1.160
HYD-3112029	L 20-116	1.160-1.180
HYD-3112030	L 20-118	1.180-1.200
HYD-3112031	L 20-120	1.200-1.220
HYD-3112032	L 20-122	1.220-1.240
HYD-3112033	L 20-124	1.240-1.260
HYD-3112034	L 20-126	1.260-1.280
HYD-3112035	L 20-128	1.280-1.300
HYD-3112036	L 20-130	1.300-1.320
HYD-3112037	L 20-132	1.320-1.340
HYD-3112038	L 20-134	1.340-1.360
HYD-3112039	L 20-136	1.360-1.380
HYD-3112040	L 20-138	1.380-1.400
HYD-3112041	L 20-140	1.400-1.420
HYD-3112042	L 20-142	1.420-1.440
HYD-3112043	L 20-144	1.440-1.460
HYD-3112044	L 20-146	1.460-1.480
HYD-3112045	L 20-148	1.480-1.500
HYD-3112046	L 20-150	1.500-1.520
HYD-3112047	L 20-152	1.520-1.540
HYD-3112048	L 20-154	1.540-1.560
HYD-3112049	L 20-156	1.560-1.580
HYD-3112050	L 20-158	1.580-1.600
HYD-3112051	L 20-160	1.600-1.620
HYD-3112052	L 20-162	1.620-1.640
HYD-3112053	L 20-164	1.640-1.660
HYD-3112054	L 20-166	1.660-1.680
HYD-3112055	L 20-168	1.680-1.700
HYD-3112056	L 20-170	1.700-1.720
HYD-3112057	L 20-172	1.720-1.740
HYD-3112058	L 20-174	1.740-1.760
HYD-3112059	L 20-176	1.760-1.780
HYD-3112060	L 20-178	1.780-1.800
HYD-3112061	L 20-180	1.800-1.820
HYD-3112062	L 20-182	1.820-1.840
HYD-3112063	L 20-184	1.840-1.860
HYD-3112064	L 20-186	1.860-1.880
HYD-3112065	L 20-188	1.880-1.900

Please check website for up-to-date information

M 50 @ 20°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- M 50 series acc. to DIN 12791
- Ref. temperature (Tp.): 20°C
- Measuring div: 0.050 g/cm³
- Scale units: 0.001 g/cm³
- Total length (L): 270 mm

M 50 @ 20°C Relative Density (SG) Hydrometers

Product Code	Type	Range – g/mL
HYD-3172001	M 50-060	0.600-0.650
HYD-3172002	M 50-065	0.650-0.700
HYD-3172003	M 50-070	0.700-0.750
HYD-3172004	M 50-075	0.750-0.800
HYD-3172005	M 50-080	0.800-0.850
HYD-3172006	M 50-085	0.850-0.900
HYD-3172007	M 50-090	0.900-0.950
HYD-3172008	M 50-095	0.950-1.000
HYD-3172009	M 50-100	1.000-1.050
HYD-3172010	M 50-105	1.050-1.100
HYD-3172011	M 50-110	1.100-1.150
HYD-3172012	M 50-115	1.150-1.200
HYD-3172013	M 50-120	1.200-1.250
HYD-3172014	M 50-125	1.250-1.300
HYD-3172015	M 50-130	1.300-1.350
HYD-3172016	M 50-135	1.350-1.400
HYD-3172017	M 50-140	1.400-1.450
HYD-3172018	M 50-145	1.450-1.500
HYD-3172019	M 50-150	1.500-1.550
HYD-3172020	M 50-155	1.550-1.600
HYD-3172021	M 50-160	1.600-1.650
HYD-3172022	M 50-165	1.650-1.700
HYD-3172023	M 50-170	1.700-1.750
HYD-3172024	M 50-175	1.750-1.800
HYD-3172025	M 50-180	1.800-1.850
HYD-3172026	M 50-185	1.850-1.900
HYD-3172027	M 50-190	1.900-1.950
HYD-3172028	M 50-195	1.950-2.000

Please check website for up-to-date information

L 50 @ 20°C Relative Density (SG) Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications. Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

For ISO 17025 Calibration please select the part number CS-HYD-UKAS from our Hydrometer Calibration Services page.

- L 50 series acc. to DIN 12791
- Ref. temperature (T_p): 20°C
- Measuring div: 0.050 g/cm³
- Scale units: 0.0005 g/cm³
- Total length (L): 335 mm

L 50 @ 20°C Relative Density (SG) Hydrometers

Product Code	Type	Range – g/mL
HYD-3132001	L 50-060	0.600-0.650
HYD-3132002	L 50-065	0.650-0.700
HYD-3132003	L 50-070	0.700-0.750
HYD-3132004	L 50-075	0.750-0.800
HYD-3132005	L 50-080	0.800-0.850
HYD-3132006	L 50-085	0.850-0.900
HYD-3132007	L 50-090	0.900-0.950
HYD-3132008	L 50-095	0.950-1.000
HYD-3132009	L 50-100	1.000-1.050
HYD-3132010	L 50-105	1.050-1.100
HYD-3132011	L 50-110	1.100-1.150
HYD-3132012	L 50-115	1.150-1.200
HYD-3132013	L 50-120	1.200-1.250
HYD-3132014	L 50-125	1.250-1.300
HYD-3132015	L 50-130	1.300-1.350
HYD-3132016	L 50-135	1.350-1.400
HYD-3132017	L 50-140	1.400-1.450
HYD-3132018	L 50-145	1.450-1.500
HYD-3132019	L 50-150	1.500-1.550
HYD-3132020	L 50-155	1.550-1.600
HYD-3132021	L 50-160	1.600-1.650
HYD-3132022	L 50-165	1.650-1.700
HYD-3132023	L 50-170	1.700-1.750
HYD-3132024	L 50-175	1.750-1.800
HYD-3132025	L 50-180	1.800-1.850
HYD-3132026	L 50-185	1.850-1.900
HYD-3132027	L 50-190	1.900-1.950
HYD-3132028	L 50-195	1.950-2.000

Please check website for up-to-date information

ASTM Glassware

ASTM D 86 Distillation

D 86 Flask Support Plates

For use in accordance with ASTM D 86 "Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure".

D 86 Flask Support Plates

Product Code	Description
D 86 GT	Style Flask Support Plate 25mm Hole
PS-140-H25	Haage® Style Flask Support Plate 25mm Hole
PS-140-H32	Haage® Style Flask Support Plate 32mm Hole
PS-140-H38	Haage® Style Flask Support Plate 38mm Hole
PS-140-H50	Haage® Style Flask Support Plate 50mm Hole
PS-140-I25	ISL® Style Flask Support Plate 25mm Hole
PS-140-I32	ISL® Style Flask Support Plate 32mm Hole
PS-140-I38	ISL® Style Flask Support Plate 38mm Hole
PS-140-I50	ISL® Style Flask Support Plate 50mm Hole
PS-140-M25	Manual Flask Support Plate 25mm Hole
PS-140-M32	Manual Flask Support Plate 32mm Hole
PS-140-M38	Manual Flask Support Plate 38mm Hole
PS-140-M50	Manual Flask Support Plate 50mm Hole
PS-140-Z25	Herzog® Style Flask Support Plate 25mm Hole
PS-140-Z32	Herzog® Style Flask Support Plate 32mm Hole
PS-140-Z38	Herzog® Style Flask Support Plate 38mm Hole
PS-140-Z50	Herzog® Style Flask Support Plate 50mm Hole

Please check website for up-to-date information

D 86 Flasks

For use in accordance with ASTM D 86 "Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure".

D 86 Flasks

Product Code	Description
PS-100-G	GT Style D 86 Flask
PS-100-H	Haage® Style D 86 Flask
PS-100-I	ISL® Style D 86 Flask
PS-100-M	Manual D 86 Flask
PS-100-P	Precision Style D 86 Flask
PS-100-Q	Quartz D 86 Flask
PS-100-Z	Herzog® Style D 86 Flask
PS-100-Z-19	Herzog® Style D 86 Flask, W/ 19/26 Joint
PS-100-Q19	Quartz D 86 Flask, W/ 19/26 Joint
PS-150-HSQ	200mL Quartz Flask for Haage® D 86 Instrument
PS-150-ISQ	200mL Quartz Flask for ISL® D 86 Instrument
PS-150-MSQ	200mL Quartz Manual D 86 Flask
PS-100-OP	D 86 Flask for ISL® Optidist®, 125mL
PS-100-OP-200	D 86 Flask for ISL® Optidist®, 200mL
PS-100-OP-Q	Quartz D 86 Flask for ISL® Optidist®, 125mL
PS-100-OP-Q-200	Quartz D 86 Flask for ISL® Optidist®, 200mL
PS-100-PMD	10mL Flask for ISL® PMD

Please check website for up-to-date information

D 86 Receivers

For use in accordance with ASTM D 86 "Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure".

D 86 Receivers & Consumables

Product Code	Description
PS-130-H	Haage® Style D 86 Receiver
PS-130-I	ISL® Style D 86 Receiver
PS-130-IO	Viton O-Ring for ISL Style D 86 Base
PS-130-M	Manual D 86 Receiver (Requires Base)
PS-130-MB	Standard D 86 Brass Base W/ Viton O-Ring, Specify Unit Type
PS-130-P	Precision Style D 86 Receiver
PS-130-Z	Herzog® Style D 86 Receiver
PS-131-H	Haage® Style D 86 Receiver, All Glass
PS-131-I	ISL® Style D 86 Receiver, All Glass
PS-131-Z	Herzog® Style D 86 Receiver, All Glass
PS-135-CY	D 86 5ML Graduated Cylinder, Class 'A'
PS-135-S	D 86 Condenser Swab / 10 Pack
PS-130-OP	D 86 Receiver for ISL® Optidist®
PS-131-OP	D 86 Receiver, all Glass for ISL® Optidist®
PS-110-19	D 86 Centering Device for 19/26 Joint

Please check website for up-to-date information

D 1160 Distillation

For use in accordance with ASTM D 1160 "Standard Test Method for Distillation of Petroleum Products at Reduced Pressure".

D 1160 Columns

Product Code	Description
PS-170-G	GT Style D1160 Column
PS-170-I	ISL® Style D 1160 Column
PS-170-Z	Herzog® Style D 1160 Column

Please check website for up-to-date information

D 1160 Flasks

For use in accordance with ASTM D 1160 "Standard Test Method for Distillation of Petroleum Products at Reduced Pressure".

D 1160 Flasks

Product Code	Description
PS-160-G	GT Style 500ML D 1160 Flask
PS-160-I	ISL® Style 500ML D 1160 Flask
PS-160-M	Manual 500ML D 1160 Flask
PS-160-QG	GT Style 500ML D 1160 Flask, Quartz
PS-160-QI	ISL® Style 500ML D 1160 Flask, Quartz
PS-160-QM	Manual 500ML D 1160 Flask, Quartz
PS-160-QZ	Herzog® Style 500ML D 1160 Flask, Quartz
PS-160-Z	Herzog® Style 500ML D 1160 Flask

Please check website for up-to-date information

D 1160 Receivers

For use in accordance with ASTM D 1160 "Standard Test Method for Distillation of Petroleum Products at Reduced Pressure".

D 1160 Receivers

Product Code	Description
PS-200-G	GT Style D 1160 Receiver
PS-200-I	ISL® Style D 1160 Receiver
PS-200-M	Manual D 1160 Receiver
PS-200-Z	Herzog® Style D 1160 Receiver

Please check website for up-to-date information

D 1319 Hydrocarbon:(FIA)

For use in accordance with ASTM D 1319 "Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption".

D 1319 Hydrocarbon: (FIA)

Product Code	Description
PS-250-12	FIA Socket Tip Clamp
PS-250-28L	FIA #28 Pinch Clamp for Column Ball/Socket Connection
PS-250-2PL	FIA System Complete, 2 Station
PS-250-4PL	FIA System Complete, 4 Station
PS-250-6PL	FIA System Complete, 6 Station
PS-250-A	FIA Analyzer Tube, Case of 500
PS-250-A-T	FIA Analyzer Tube, Tapered Tip, Case of 100
PS-250-BJ	FIA 28/12 Ball Joint Connector
PS-250-FB	FIA Column W/ Flat End for Compression Fitting
PS-250-FC	FIA Fitting Connector, Column to Analyzer Tube
PS-250-FC006	O-Ring For FIA Connector, Analyzer Tube Section
PS-250-FC107	O-Ring For FIA Connector, Column Section
PS-250-SG1	Silica Gel For FIA, 1 LB Container
PS-250-SG5	Silica Gel For FIA, 5 LB Container
PS-250-P	FIA Precision Style Bore Column
PS-250-PT	1/2 Socket Tip for FIA Precision Style Bore Column
PS-250-R	FIA Regulator
PS-250-S	FIA Standard Column
PS-250-T	FIA Fitting Connector, Analyzer Tube
PS-250-SG10G	FIA Silica Gel, 10 Gram Packet
PS-250-SG100G	FIA Silica Gel, 100 Gram Container
PS-250-SY	FIA Sample Application Syringe
PS-250-SYT	FIA Syringe Needle, 22 Gauge 4"
PS-250-V	FIA Electromagnetic Vibration Unit

Please check website for up-to-date information

D 1401 Water Separability

For use in accordance with ASTM D 1401 "Standard Test Method for Water Separability of Petroleum Oils and Synthetic Fluids".

D 1401 Water Separability

Product Code	Description
PS-1401	ASTM D 1401 Cylinder 100mm

Please check website for up-to-date information

D 2500 Cloud Point

For use in accordance with ASTM D 2500 "Standard Test Method for Cloud Point of Petroleum Products".

D 2500 Cloud Point

Product Code	Description
PS-220-I	Cloud Point Jars (ISL® Style) ISL Style Cloud Jar / Case of 24
PS-220-M	Cloud Point Jar ASTM D 2500 Manual Cloud Jar

Please check website for up-to-date information

D 3242 Acidity in Fuel

For use in accordance with ASTM D 3242 "Standard Test Method for Acidity in Aviation Turbine Fuel".

D 3242 Acidity in Fuel

Product Code	Description
PS-610	D 3242 500ML Titration Flask

Please check website for up-to-date information

D 36 Softening Point of Bitumen

For use in accordance with ASTM D 36 "Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)".

D 36 Softening Point of Bitumen

Product Code	Description
PS-270-G	GT Style 500ML Ring & Ball Beaker
PS-270-I	ISL® Style 500ML Ring & Ball Beaker
PS-270-Z	Herzog® Style 500ML Ring & Ball Beaker

Please check website for up-to-date information

D 483 Unulfonated Residue

For use in accordance with ASTM D 483 "Standard Test Method for Unulfonated Residue of Petroleum Plant Spray Oils".

D 483 Unulfonated Residue

Product Code	Description
PS-483-F	Sulphonation Flask

Please check website for up-to-date information

D 524 Ramsbottom

For use in accordance with ASTM D 524 "Standard Test Method for Ramsbottom Carbon Residue of Petroleum Products".

D 524 Ramsbottom Carbon Residue

Product Code	Description
PS-260-P	D 524 Ramsbottom Coking Bulb / Pack of 10
PS-260-C	D 524 Ramsbottom Coking Bulb / Case of 100
PS-260-B	D 524 Ramsbottom Coking Bulb / Case of 500

Please check website for up-to-date information

D 525 Oxidation Stability

For use in accordance with ASTM D 525 "Standard Test Method for Oxidation Stability of Gasoline (Induction Period Method)".

D 525 Oxidation Stability

Product Code	Description
PS-630-C	D 525 Gum Stability Jar W/ Cover
PS-630-J	D 525 Gum Stability Jar
PS-630-L	D 525 Gum Stability Lid

Please check website for up-to-date information

D 5800 Evaporation Loss

For use in accordance with ASTM D 5800 "Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method".

D 5800 Evaporation Loss

Product Code	Description
PS-240-D	ISL® Style Noack Delivery Tubes, Set of 3
PS-240-F1	ISL® Style Noack #1 Flask
PS-240-N	ISL® Style Noack Complete Glassware Set
PS-240-Y	ISL® Style Noack "Y" Connector

Please check website for up-to-date information

D 611 Aniline Point

For use in accordance with ASTM D 611 "Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents".

D 611 Aniline Point

Product Code	Description
PS-225-I	ISL® Style Aniline Jar

Please check website for up-to-date information

D 6371 Cold Filter Plugging Point

For use in accordance with ASTM D 6371 "Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels".

D 6371 Cold Filter Plugging Point

Product Code	Description
PS-215-I	ISL® Style CFPP Jar
PS-216	CFPP Pipette
PS-215-M	CFPP Jar, Manual
PS-216-M	CFPP Pipette, Manual

Please check website for up-to-date information

D 892 Foaming of Lube Oils

For use in accordance with ASTM D 892 "Standard Test Method for Foaming Characteristics of Lubricating Oils".

D 892 Foaming of Lube Oils

Product Code	Description
PS-620-R	D 892 Foam Test Cylinder

Please check website for up-to-date information

D 943 Oxidation

For use in accordance with ASTM D 943 "Standard Test Method for Oxidation Characteristics of Inhibited Mineral Oils".

D 943 Oxidation

Product Code	Description
PS-600-C	D 943 Condenser
PS-600-D	D 943 Oxygen Delivery Tube
PS-600-T	D 943 Test Tube W/ 300ML Calibration Line

D 97 Pour Point

For use in accordance with ASTM D 97 "Standard Test Method for Pour Point of Petroleum Products".

D 97 Pour Point

Product Code	Description
PS-210-I	ISL® Style Pour Jar / Case of 24
PS-210-IMJ	ISL® Style Mini Pour Jar / Case of 24
PS-210-M	Manual Pour Jar / Case of 24
PS-210-MMJ	Manual Mini Pour Jar / Case of 24
PS-530-IA	ISL® Cloud Probe Class A Standard
PS-530-IAT	ISL® Cloud Probe Class A Certified, 1 Point (0c)
PS-530-IAT3	ISL® Cloud Probe Class A Certified, 3 Point (0, -25, -50c)

D 7279 Houillon Viscometer

For use in accordance with ASTM D 7279 "Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated Houillon Viscometer".

D 7279 Houillon Viscometer

Product Code	Description
PS-230-005	ISL® Houillon .05 Constant
PS-230-007	ISL® Houillon .07 Constant
PS-230-010	ISL® Houillon .10 Constant
PS-230-020	ISL® Houillon .20 Constant
PS-230-030	ISL® Houillon .30 Constant
PS-230-050	ISL® Houillon .50 Constant
PS-230-070	ISL® Houillon .70 Constant
PS-230-100	ISL® Houillon 1.00 Constant
PS-230-1000	ISL® Houillon 10.00 Constant
PS-230-120	ISL® Houillon 1.20 Constant
PS-230-150	ISL® Houillon 1.50 Constant
PS-230-1500	ISL® Houillon 15.00 Constant
PS-230-200	ISL® Houillon 2.00 Constant
PS-230-300	ISL® Houillon 3.00 Constant
PS-230-500	ISL® Houillon 5.00 Constant
PS-230-700	ISL® Houillon 7.00 Constant
PS-230-850	ISL® Houillon 8.50 Constant

Please check website for up-to-date information

Glass Capillary Viscometers

BS/IP/RF U Tube Reverse Flow for Opaque Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
RF01UKC	BS/IP/RF Size 1, Nom.Constant 0.003, Range 0.6 to 3 cSt	UKAS ISO 17025
RF01NC	BS/IP/RF Size 1, Nom.Constant 0.003, Range 0.6 to 3 cSt	Non Certified
RF02UKC	BS/IP/RF Size 2, Nom.Constant 0.01, Range 2 to 10 cSt	UKAS ISO 17025
RF02NC	BS/IP/RF Size 2, Nom.Constant 0.01, Range 2 to 10 cSt	Non Certified
RF03UKC	BS/IP/RF Size 3, Nom.Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
RF03NC	BS/IP/RF Size 3, Nom.Constant 0.03, Range 6 to 30 cSt	Non Certified
RF04UKC	BS/IP/RF Size 4, Nom.Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
RF04NC	BS/IP/RF Size 4, Nom.Constant 0.1, Range 20 to 100 cSt	Non Certified
RF05UKC	BS/IP/RF Size 5, Nom.Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
RF05NC	BS/IP/RF Size 5, Nom.Constant 0.3, Range 60 to 300 cSt	Non Certified
RF06UKC	BS/IP/RF Size 6, Nom.Constant 1, Range 200 to 1000 cSt	UKAS ISO 17025
RF06NC	BS/IP/RF Size 6, Nom.Constant 1, Range 200 to 1000 cSt	Non Certified
RF07UKC	BS/IP/RF Size 7, Nom.Constant 3, Range 600 to 3000 cSt	UKAS ISO 17025
RF07NC	BS/IP/RF Size 7, Nom.Constant 3, Range 600 to 3000 cSt	Non Certified
RF08UKC	BS/IP/RF Size 8, Nom.Constant 10, Range 2000 to 10,000 cSt	UKAS ISO 17025
RF08NC	BS/IP/RF Size 8, Nom.Constant 10, Range 2000 to 10,000 cSt	Non Certified
RF09UKC	BS/IP/RF Size 9, Nom.Constant 30, Range 6000 to 30,000 cSt	UKAS ISO 17025
RF09NC	BS/IP/RF Size 9, Nom.Constant 30, Range 6000 to 30,000 cSt	Non Certified
RF10UKC	BS/IP/RF Size 10, Nom.Constant 100, Range 20,000 to 100,000 cSt	UKAS ISO 17025
RF10NC	BS/IP/RF Size 10, Nom.Constant 100, Range 20,000 to 100,000 cSt	Non Certified
RF11UKC	BS/IP/RF Size 11, Nom.Constant 300, Range 60,000 to 300,000 cSt	UKAS ISO 17025
RF11NC	BS/IP/RF Size 11, Nom.Constant 300, Range 60,000 to 300,000 cSt	Non Certified

Please check website for up-to-date information

BS/IP/SL Suspended Level for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
BSIPSL1UKC	BS/IP/SL Size 1 Nom. Constant 0.01, Range 3.5 to 10 cSt	UKAS ISO 17025
BSIPSL1NC	BS/IP/SL Size 1 Nom. Constant 0.01, Range 3.5 to 10 cSt	Non Certified
BSIPSL1AUKC	BS/IP/SL Size 1A Nom. Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
BSIPSL1ANC	BS/IP/SL Size 1A Nom. Constant 0.03, Range 6 to 30 cSt	Non Certified
BSIPSL2UKC	BS/IP/SL Size 2 Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
BSIPSL2NC	BS/IP/SL Size 2 Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
BSIPSL2AUKC	BS/IP/SL Size 2A Nom. Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
BSIPSL2ANC	BS/IP/SL Size 2A Nom. Constant 0.3, Range 60 to 300 cSt	Non Certified
BSIPSL3UKC	BS/IP/SL Size 3 Nom. Constant 1.0, Range 200 to 1000 cSt	UKAS ISO 17025
BSIPSL3NC	BS/IP/SL Size 3 Nom. Constant 1.0, Range 200 to 1000 cSt	Non Certified
BSIPSL3AUKC	BS/IP/SL Size 3A Nom. Constant 3.0, Range 600 to 3,000 cSt	UKAS ISO 17025
BSIPSL3ANC	BS/IP/SL Size 3A Nom. Constant 3.0, Range 600 to 3,000 cSt	Non Certified
BSIPSL4UKC	BS/IP/SL Size 4 Nom. Constant 10, Range 2,000 to 10,000 cSt	UKAS ISO 17025
BSIPSL4NC	BS/IP/SL Size 4 Nom. Constant 10, Range 2,000 to 10,000 cSt	Non Certified
BSIPSL4AUKC	BS/IP/SL Size 4A Nom. Constant 30, Range 6,000 to 30,000 cSt	UKAS ISO 17025
BSIPSL4ANC	BS/IP/SL Size 4A Nom. Constant 30, Range 6,000 to 30,000 cSt	Non Certified
BSIPSL5UKC	BS/IP/SL Size 5 Nom. Constant 100, Range 20,000 to 100,000 cSt	UKAS ISO 17025
BSIPSL5NC	BS/IP/SL Size 5 Nom. Constant 100, Range 20,000 to 100,000 cSt	Non Certified

Please check website for up-to-date information

BS/IP/SL (s) Suspended Level Short Form for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
SHORT01UKC	BS/IP/SL(S) Size 1, Nom. Constant 0.0008, Range 1.05 min	UKAS ISO 17025
SHORT01NC	BS/IP/SL(S) Size 1, Nom. Constant 0.0008, Range 1.05 min	Non Certified
SHORT02UKC	BS/IP/SL(S) Size 2, Nom. Constant 0.003, Range 2.1 to 3 cSt	UKAS ISO 17025
SHORT02NC	BS/IP/SL(S) Size 2, Nom. Constant 0.003, Range 2.1 to 3 cSt	Non Certified
SHORT03UKC	BS/IP/SL(S) Size 3, Nom. Constant 0.01, Range 3.8 to 10 cSt	UKAS ISO 17025
SHORT03NC	BS/IP/SL(S) Size 3, Nom. Constant 0.01, Range 3.8 to 10 cSt	Non Certified
SHORT04UKC	BS/IP/SL(S) Size 4, Nom. Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
SHORT04NC	BS/IP/SL(S) Size 4, Nom. Constant 0.03, Range 6 to 30 cSt	Non Certified
SHORT05UKC	BS/IP/SL(S) Size 5, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
SHORT05NC	BS/IP/SL(S) Size 5, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
SHORT06UKC	BS/IP/SL(S) Size 6, Nom. Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
SHORT06NC	BS/IP/SL(S) Size 6, Nom. Constant 0.3, Range 60 to 300 cSt	Non Certified
SHORT07UKC	BS/IP/SL(S) Size 7, Nom. Constant 1, Range 200 to 1000 cSt	UKAS ISO 17025
SHORT07NC	BS/IP/SL(S) Size 7, Nom. Constant 1, Range 200 to 1000 cSt	Non Certified
SHORT08UKC	BS/IP/SL(S) Size 8, Nom. Constant 3, Range 600 to 3000 cSt	UKAS ISO 17025
SHORT08NC	BS/IP/SL(S) Size 8, Nom. Constant 3, Range 600 to 3000 cSt	Non Certified
SHORT09UKC	BS/IP/SL(S) Size 9, Nom. Constant 10, Range 2,000 to 10,000 cSt	UKAS ISO 17025
SHORT09NC	BS/IP/SL(S) Size 9, Nom. Constant 10, Range 2,000 to 10,000 cSt	Non Certified

Please check website for up-to-date information

BS/IP/MSL Miniature Suspended Level for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
MSL01UKC	BS/IP/MSL Miniature SL, Size 1, Nom. Constant 0.003, Range 0.6 to 3 cSt	UKAS ISO 17025
MSL01NC	BS/IP/MSL Miniature SL, Size 1, Nom. Constant 0.003, Range 0.6 to 3 cSt	Non Certified
MSL02UKC	BS/IP/MSL Miniature SL, Size 2, Nom. Constant 0.01, Range 2 to 10 cSt	UKAS ISO 1702
MSL02NC	BS/IP/MSL Miniature SL, Size 2, Nom. Constant 0.01, Range 2 to 10 cSt	Non Certified
MSL03UKC	BS/IP/MSL Miniature SL, Size 3, Nom. Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
MSL03NC	BS/IP/MSL Miniature SL, Size 3, Nom. Constant 0.03, Range 6 to 30 cSt	Non Certified
MSL04UKC	BS/IP/MSL Miniature SL, Size 4, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
MSL04NC	BS/IP/MSL Miniature SL, Size 4, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
MSL05UKC	BS/IP/MSL Miniature SL, Size 5, Nom. Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
MSL05NC	BS/IP/MSL Miniature SL, Size 5, Nom. Constant 0.3, Range 60 to 300 cSt	Non Certified
MSL06UKC	BS/IP/MSL Miniature SL, Size 6, Nom. Constant 1.0, Range 200 to 1000 cSt	UKAS ISO 17025
MSL06NC	BS/IP/MSL Miniature SL, Size 6, Nom. Constant 1.0, Range 200 to 1000 cSt	Non Certified
MSL07UKC	BS/IP/MSL Miniature SL, Size 7, Nom. Constant 3.0, Range 600 to 3000 cSt	UKAS ISO 17025
MSL07NC	BS/IP/MSL Miniature SL, Size 7, Nom. Constant 3.0, Range 600 to 3000 cSt	Non Certified

Please check website for up-to-date information

BS/U U Tube for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
U01UKC	BS/U Tube Size A, Nom. Constant 0.003, Range 0.9 to 3 cSt	UKAS ISO 17025
U01NC	BS/U Tube Size A, Nom. Constant 0.003, Range 0.9 to 3 cSt	Non Certified
U02UKC	BS/U Tube Size B, Nom. Constant 0.01, Range 2.0 to 10 cSt	UKAS ISO 17025
U02NC	BS/U Tube Size B, Nom. Constant 0.01, Range 2.0 to 10 cSt	Non Certified
U03UKC	BS/U Tube Size C, Nom. Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
U03NC	BS/U Tube Size C, Nom. Constant 0.03, Range 6 to 30 cSt	Non Certified
U04UKC	BS/U Tube Size D, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
U04NC	BS/U Tube Size D, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
U05UKC	BS/U Tube Size E, Nom. Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
U05NC	BS/U Tube Size E, Nom. Constant 0.3, Range 60 to 300 cSt	Non Certified
U06UKC	BS/U Tube Size F, Nom. Constant 1.0, Range 200 to 1000 cSt	UKAS ISO 17025
U06NC	BS/U Tube Size F, Nom. Constant 1.0, Range 200 to 1000 cSt	Non Certified
U07UKC	BS/U Tube Size G, Nom. Constant 3.0, Range 600 to 3000 cSt	UKAS ISO 17025
U07NC	BS/U Tube Size G, Nom. Constant 3.0, Range 600 to 3000 cSt	Non Certified
U08UKC	BS/U Tube Size H, Nom. Constant 10.0, Range 2000 to 10000 cSt	UKAS ISO 17025
U08NC	BS/U Tube Size H, Nom. Constant 10.0, Range 2000 to 10000 cSt	Non Certified

Please check website for up-to-date information

BS/U/M Miniature U Tube for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
MINIU01UKC	BS/U/M Miniature U-Tube Size M1, Nom. Constant 0.001, Range 0.2 to 1 cSt	UKAS ISO 17025
MINIU01NC	BS/U/M Miniature U-Tube Size M1, Nom. Constant 0.001, Range 0.2 to 1 cSt	Non Certified
MINIU02UKC	BS/U/M Miniature U-Tube Size M2, Nom. Constant 0.005, Range 1 to 5 cSt	UKAS ISO 17025
MINIU02NC	BS/U/M Miniature U-Tube Size M2, Nom. Constant 0.005, Range 1 to 5 cSt	Non Certified
MINIU03UKC	BS/U/M Miniature U-Tube Size M3, Nom. Constant 0.15, Range 3 to 15 cSt	UKAS ISO 17025
MINIU03NC	BS/U/M Miniature U-Tube Size M3, Nom. Constant 0.15, Range 3 to 15 cSt	Non Certified
MINIU04UKC	BS/U/M Miniature U-Tube Size M4, Nom. Constant 0.04, Range 8 to 40 cSt	UKAS ISO 17025
MINIU04NC	BS/U/M Miniature U-Tube Size M4, Nom. Constant 0.04, Range 8 to 40 cSt	Non Certified
MINIU05UKC	BS/U/M Miniature U-Tube Size M5, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
MINIU05NC	BS/U/M Miniature U-Tube Size M5, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified

Please check website for up-to-date information

Cannon Fenske Routine Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
CFR01UKC	CFR Size 25, Nom. Constant 0.002, Range 0.5 to 2 cSt	UKAS ISO 17025
CFR01NC	CFR Size 25, Nom. Constant 0.002, Range 0.5 to 2 cSt	Non Certified
CFR02UKC	CFR Size 50, Nom. Constant 0.004, Range 0.8 to 4 cSt	UKAS ISO 17025
CFR02NC	CFR Size 50, Nom. Constant 0.004, Range 0.8 to 4 cSt	Non Certified
CFR03UKC	CFR Size 75, Nom. Constant 0.008, Range 1.6 to 8 cSt	UKAS ISO 17025
CFR03NC	CFR Size 75, Nom. Constant 0.008, Range 1.6 to 8 cSt	Non Certified
CFR04UKC	CFR Size 100, Nom. Constant 0.015, Range 3 to 15 cSt	UKAS ISO 17025
CFR04NC	CFR Size 100, Nom. Constant 0.015, Range 3 to 15 cSt	Non Certified
CFR05UKC	CFR Size 150, Nom. Constant 0.035, Range 7 to 35 cSt	UKAS ISO 17025
CFR05NC	CFR Size 150, Nom. Constant 0.035, Range 7 to 35 cSt	Non Certified
CFR06UKC	CFR Size 200, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
CFR06NC	CFR Size 200, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
CFR07UKC	CFR Size 300, Nom. Constant 0.25, Range 50 to 250 cSt	UKAS ISO 17025
CFR07NC	CFR Size 300, Nom. Constant 0.25, Range 50 to 250 cSt	Non Certified
CFR08UKC	CFR Size 350, Nom. Constant 0.5, Range 100 to 500 cSt	UKAS ISO 17025
CFR08NC	CFR Size 350, Nom. Constant 0.5, Range 100 to 500 cSt	Non Certified
CFR09UKC	CFR Size 400, Nom. Constant 1.2, Range 240 to 1200 cSt	UKAS ISO 17025
CFR09NC	CFR Size 400, Nom. Constant 1.2, Range 240 to 1200 cSt	Non Certified
CFR10UKC	CFR Size 450, Nom. Constant 2.5, Range 500 to 2500 cSt	UKAS ISO 17025
CFR10NC	CFR Size 450, Nom. Constant 2.5, Range 500 to 2500 cSt	Non Certified
CFR11UKC	CFR Size 500, Nom. Constant 8, Range 1600 to 8000 cSt	UKAS ISO 17025
CFR11NC	CFR Size 500, Nom. Constant 8, Range 1600 to 8000 cSt	Non Certified
CFR12UKC	CFR Size 600, Nom. Constant 20, Range 4000 to 20,000 cSt	UKAS ISO 17025
CFR12NC	CFR Size 600, Nom. Constant 20, Range 4000 to 20,000 cSt	Non Certified
CFR13UKC	CFR Size 650 Custom Size, Nom. Constant 50, Range 10000 to 50000 cSt	UKAS ISO 17025
CFR13NC	CFR Size 650 Custom Size, Nom. Constant 50, Range 10000 to 50000 cSt	Non Certified

Please check website for up-to-date information

Cannon Fenske Opaque Viscometer for Transparent & Opaque Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
CFO01UKC	CFO Size 25, Nom. Constant 0.002, Range 0.4 to 2 cSt	UKAS ISO 17025
CFO01NC	CFO Size 25, Nom. Constant 0.002, Range 0.4 to 2 cSt	Non Certified
CFO02UKC	CFO Size 50, Nom. Constant 0.004, Range 0.8 to 4 cSt	UKAS ISO 17025
CFO02NC	CFO Size 50, Nom. Constant 0.004, Range 0.8 to 4 cSt	Non Certified
CFO03UKC	CFO Size 75, Nom. Constant 0.008, Range 1.6 to 8 cSt	UKAS ISO 17025
CFO03NC	CFO Size 75, Nom. Constant 0.008, Range 1.6 to 8 cSt	Non Certified
CFO04UKC	CFO Size 100, Nom. Constant 0.015, Range 3 to 15 cSt	UKAS ISO 17025
CFO04NC	CFO Size 100, Nom. Constant 0.015, Range 3 to 15 cSt	Non Certified
CFO05UKC	CFO Size 150, Nom. Constant 0.035, Range 7 to 35 cSt	UKAS ISO 17025
CFO05NC	CFO Size 150, Nom. Constant 0.035, Range 7 to 35 cSt	Non Certified
CFO06UKC	CFO Size 200, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
CFO06NC	CFO Size 200, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
CFO07UKC	CFO Size 300, Nom. Constant 0.25, Range 50 to 200 cSt	UKAS ISO 17025
CFO07NC	CFO Size 300, Nom. Constant 0.25, Range 50 to 200 cSt	Non Certified
CFO08UKC	CFO Size 350, Nom. Constant 0.5, Range 100 to 500 cSt	UKAS ISO 17025
CFO08NC	CFO Size 350, Nom. Constant 0.5, Range 100 to 500 cSt	Non Certified
CFO09UKC	CFO Size 400, Nom. Constant 1.2, Range 240 to 1200 cSt	UKAS ISO 17025
CFO09NC	CFO Size 400, Nom. Constant 1.2, Range 240 to 1200 cSt	Non Certified
CFO10UKC	CFO Size 450, Nom. Constant 2.5, Range 500 to 2500 cSt	UKAS ISO 17025
CFO10NC	CFO Size 450, Nom. Constant 2.5, Range 500 to 2500 cSt	Non Certified
CFO11UKC	CFO Size 500, Nom. Constant 8, Range 1600 to 8000 cSt	UKAS ISO 17025
CFO11NC	CFO Size 500, Nom. Constant 8, Range 1600 to 8000 cSt	Non Certified
CFO12UKC	CFO Size 600, Nom. Constant 20, Range 4000 to 20,000 cSt	UKAS ISO 17025
CFO12NC	CFO Size 600, Nom. Constant 20, Range 4000 to 20,000 cSt	Non Certified
CFO13UKC	CFO Size 650 Custom Size, Nom. Constant 50, Range 10000 to 50000 cSt	UKAS ISO 17025
CFO13NC	CFO Size 650 Custom Size, Nom. Constant 50, Range 10000 to 50000 cSt	Non Certified
CFO14UKC	CFO Size 700 Custom Size, Nom. Constant 100, Range 20000 to 100000 cSt	UKAS ISO 17025
CFO14NC	CFO Size 700 Custom Size, Nom. Constant 100, Range 20000 to 100000 cSt	Non Certified

Please check website for up-to-date information



Ubbelohde Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
UBBELO1UKC	Ubbelohde Size 0, Nom. Constant 0.001, Range 0.3 to 1 cSt	UKAS ISO 17025
UBBELO1NC	Ubbelohde Size 0, Nom. Constant 0.001, Range 0.3 to 1 cSt	Non Certified
UBBELO2UKC	Ubbelohde Size 0C, Nom. Constant 0.003, Range 0.6 to 3 cSt	UKAS ISO 17025
UBBELO2NC	Ubbelohde Size 0C, Nom. Constant 0.003, Range 0.6 to 3 cSt	Non Certified
UBBELO3UKC	Ubbelohde Size 0B, Nom. Constant 0.005, Range 1 to 5 cSt	UKAS ISO 17025
UBBELO3NC	Ubbelohde Size 0B, Nom. Constant 0.005, Range 1 to 5 cSt	Non Certified
UBBELO4UKC	Ubbelohde Size 1, Nom. Constant 0.01, Range 2 to 10 cSt	UKAS ISO 17025
UBBELO4NC	Ubbelohde Size 1, Nom. Constant 0.01, Range 2 to 10 cSt	Non Certified
UBBELO5UKC	Ubbelohde Size 1C, Nom. Constant 0.03, Range 6 to 30 cSt	UKAS ISO 17025
UBBELO5NC	Ubbelohde Size 1C, Nom. Constant 0.03, Range 6 to 30 cSt	Non Certified
UBBELO6UKC	Ubbelohde Size 1B, Nom. Constant 0.05, Range 10 to 50 cSt	UKAS ISO 17025
UBBELO6NC	Ubbelohde Size 1B, Nom. Constant 0.05, Range 10 to 50 cSt	Non Certified
UBBELO7UKC	Ubbelohde Size 2, Nom. Constant 0.1, Range 20 to 100 cSt	UKAS ISO 17025
UBBELO7NC	Ubbelohde Size 2, Nom. Constant 0.1, Range 20 to 100 cSt	Non Certified
UBBELO8UKC	Ubbelohde Size 2C, Nom. Constant 0.3, Range 60 to 300 cSt	UKAS ISO 17025
UBBELO8NC	Ubbelohde Size 2C, Nom. Constant 0.3, Range 60 to 300 cSt	Non Certified
UBBELO9UKC	Ubbelohde Size 2B, Nom. Constant 0.5, Range 100 to 500 cSt	UKAS ISO 17025
UBBELO9NC	Ubbelohde Size 2B, Nom. Constant 0.5, Range 100 to 500 cSt	Non Certified
UBBEL10UKC	Ubbelohde Size 3, Nom. Constant 1.0, Range 200 to 1000 cSt	UKAS ISO 17025
UBBEL10NC	Ubbelohde Size 3, Nom. Constant 1.0, Range 200 to 1000 cSt	Non Certified
UBBEL11UKC	Ubbelohde Size 3C, Nom. Constant 3.0, Range 600 to 3000 cSt	UKAS ISO 17025
UBBEL11NC	Ubbelohde Size 3C, Nom. Constant 3.0, Range 60 to 3000 cSt	Non Certified
UBBEL12UKC	Ubbelohde Size 3B, Nom. Constant 5.0, Range 1,000 to 5,000 cSt	UKAS ISO 17025
UBBEL12NC	Ubbelohde Size 3B, Nom. Constant 5.0, Range 1,000 to 5,000 cSt	Non Certified
UBBEL13UKC	Ubbelohde Size 4, Nom. Constant 10.0, Range 2,000 to 10,000 cSt	UKAS ISO 17025
UBBEL13NC	Ubbelohde Size 4, Nom. Constant 10.0, Range 2000 to 10000 cSt	Non Certified
UBBEL14UKC	Ubbelohde Size 4C, Nom. Constant 30.0, Range 6,000 to 30,000 cSt	UKAS ISO 17025
UBBEL14NC	Ubbelohde Size 4C, Nom. Constant 30.0, Range 6,000 to 30,000 cSt	Non Certified
UBBEL15UKC	Ubbelohde Size 4B, Nom. Constant 50.0, Range 10,000 to 50,000 cSt	UKAS ISO 17025
UBBEL15NC	Ubbelohde Size 4B, Nom. Constant 50.0, Range 10,000 to 50,000 cSt	Non Certified
UBBEL16UKC	Ubbelohde Size 5, Nom. Constant 100, Range 20,000 to 100,000 cSt	UKAS ISO 17025
UBBEL16NC	Ubbelohde Size 5, Nom. Constant 100, Range 20,000 to 100,000 cSt	Non Certified

Please check website for up-to-date information



Zeifuchs Cross-Arms Viscometer

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D 445, ISO 3104, IP 71, and BS188

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D 445, D 446 and ISO 3104, 3105
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Low level of uncertainty of measurement

Product Code	Description	Certification
CROSS01UKC	Zeifuchs Cross-Arm Size 1, Nom. Constant 0.003, Range 0.6 to 3	UKAS ISO 17025
CROSS01NC	Zeifuchs Cross-Arm Size 1, Nom. Constant 0.003, Range 0.6 to 3	Non Certified
CROSS02UKC	Viscometer Zeifuchs Cross-Arms Size 2, Nom. Constant 0.01, Visc Range 2 to 10	UKAS ISO 17025
CROSS02NC	Zeifuchs Cross-Arm Size 2, Nom. Constant 0.01, Range 2 to 10 cSt	Non Certified
CROSS03UKC	Zeifuchs Cross-Arm Size 3, Nom. Constant 0.03, Visc Range 6 to 30	UKAS ISO 17025
CROSS03NC	Zeifuchs Cross-Arm Size 3, Nom. Constant 0.03, Range 6 to 30	Non Certified
CROSS04UKC	Zeifuchs Cross-Arm Size 4 Nom. Constant 0.1, Range 20 to 100	UKAS ISO 17025
CROSS04NC	Zeifuchs Cross-Arm Size 4 Nom. Constant 0.1, Range 20 to 100	Non Certified
CROSS05UKC	Zeifuchs Cross-Arms Size 5, Nom. Constant 0.3, Visc Range 60 to 300	UKAS ISO 17025
CROSS05NC	Zeifuchs Cross-Arms Size 5, Nom. Constant 0.3, Visc Range 60 to 300	Non Certified
CROSS06UKC	Zeifuchs Cross-Arms Size 6, Nom. Constant 1, Visc Range 200 to 1,000	UKAS ISO 17025
CROSS06NC	Zeifuchs Cross-Arms Size 6, Nom. Constant 1, Visc Range 200 to 1,000	Non Certified
CROSS07UKC	Zeifuchs Cross-Arms Size 7, Nom. Constant 3, Visc Range 600 to 3,000	UKAS ISO 17025
CROSS07NC	Zeifuchs Cross-Arms Size 7, Nom. Constant 3, Visc Range 600 to 3,000	Non Certified
CROSS08UKC	Zeifuchs Cross-Arms Size 8, Nom. Constant 10, Visc Range 2000 to 10,000	UKAS ISO 17025
CROSS08NC	Zeifuchs Cross-Arms Size 8, Nom. Constant 10, Visc Range 2000 to 10,000	Non Certified
CROSS09UKC	Zeifuchs Cross-Arms Size 9, Nom. Constant 30, Visc Range 6,000 to 10,000	UKAS ISO 17025
CROSS09NC	Zeifuchs Cross-Arms Size 9, Nom. Constant 30, Visc Range 6,000 to 10,000	Non Certified
CROSS10UKC	Zeifuchs Cross-Arms Size 10, Nom. Constant 100, Visc Range 20,000 to 100,000	UKAS ISO 17025
CROSS10NC	Zeifuchs Cross-Arms Size 10, Nom. Constant 100, Visc Range 20,000 to 100,000	Non Certified

Please check website for up-to-date information

Thermometers

Digital Thermometer

Paragon's high performance T2, T8 (2 or 8 channel) high precision digital thermometers have a host of new features for increased usability and lower life-costs.

Using calibrated probes with T2 / T8 you can choose between storing calibration data into the instrument's memory or into the probe's proprietary 'Smart' connector. Calibration data stays permanently with the probe in this connector, which T2 / T8 instantly recognises, ensuring fool proof measurement. 'Smart' connectors used with T2 / T8 use a standard 5-pin DIN connector, so you can use probes with normal, passive connectors on the same input.

Calibration is made even simpler as there is no longer any need to send your whole instrument off for calibration. We send you a calibrated device to connect to T2 / T8 and, using a built-in programme, the T2 / T8 can calibrate itself.

Other features have been included, like the Temperature Watchdog Calibration and the Calibration Status Monitor

Calibrated probes should be used within their calibration temperature limits, outside these and the probe calibration may have been compromised. The Probe Temperature Watchdog keeps you informed.

If you are looking for a high precision digital thermometer with some great features and accuracy normally only found on instruments at double the price, you have found it.

Product Code	Description
T2	Thermometer Precision Thermometer, 2 port complete with RS232 Interface Non Certified
T8	Thermometer Precision Thermometer, 8 port complete with RS232 Interface Non Certified

Please check website for up-to-date information

Stainless Steel Pt Probes

Product Code	Description
T100-450-1D	Platinum Resistance Thermister -70 +450°C, 5 pin DIN plug Non Certified
T100-200-1S	Platinum Resistance Thermister -50 +200°C, 5 pin DIN Smart Connector Non Certified
T100-250-1S	Platinum Resistance Thermister -70 +250°C, 5 pin DIN Smart Connector Non Certified
T100-250-1D	Platinum Resistance Thermister -70 +250°C, 5 pin DIN plug Non Certified
T100-200-1D	Platinum Resistance Thermister -50 +200°C, 5 pin DIN plug Non Certified
T100-450-1S	Platinum Resistance Thermister -70 +450°C, 5 pin DIN plug Non Certified

Please check website for up-to-date information

ASTM & IP Mercury in Glass Thermometers

Precision mercury in glass thermometers for use in specific ASTM / IP test methods. These thermometers are of the highest quality and easily readable with an etched surface scale and yellow backing.

The ASTM designation ensures that these thermometers meet the strict guidelines of the American Society for Testing and Materials (ASTM). The IP designation indicates that the thermometer specification has been jointly agreed upon by the British Institute of Petroleum (IP) and ASTM.

To order a UKAS (ISO 17025) calibration certificate with a thermometer please select the type required from Calibration Services

- Stabilisation of the thermometer zero point by careful artificial ageing (molecular constant)
- The solid-stem types have the graduation indestructibly diffused into the glass surface and are acid and base resistant
- The enclosed-scale versions each have a prismatic capillary that makes for better reading
- Measurement accuracy within tolerances specified by AFNOR, ANSI, ASTM, BS, DIN, IP, ISO, TB, S.T.P.T.C. or other standardisation institutes

Mercury In Glass Thermometers

Product Code	ASTM/IP	Name	Range	Division	Max Len	Imm
TH-ASTM1C	1C / -	Partial Immersion	-20 to 150°C	1°C	322mm	76mm
TH-ASTM1F	1F / -	Partial Immersion	0 to 302°F	2°F	322mm	76mm
TH-ASTM2C	2C / 62C	Partial Immersion	-5 to 300°C	1°C	390mm	76mm
TH-ASTM2F	2F / 62F	Partial Immersion	20 to 580°F	2°F	390mm	76mm
TH-ASTM3C	3C / 73C	Partial Immersion	-5 to 400°C	1°C	415mm	76mm
TH-ASTM3F	3F / 73F	Partial Immersion	20 to 760°F	2°F	415mm	76mm
TH-ASTM5C	5C / 1C	Cloud & Pour, High	-38 to 50°C	1°C	230mm	108mm
TH-ASTM5F	5F / 1F	Cloud & Pour, High	-36 to 120°F	2°F	230mm	108mm
TH-ASTM6C	6C / 2C	Cloud & Pour, Low	-80 to 20°C	1°C	230mm	76mm
TH-ASTM6F	6F / 2F	Cloud & Pour, Low	-112 to 70°F	2°F	230mm	76mm
TH-ASTM7C	7C / 5C	Distillation, Low	-2 to 300°C	1°C	385mm	Total
TH-ASTM7F	7F / -	Distillation, Low	30 to 580°F	2°F	385mm	Total
TH-ASTM8C	8C / 6C	Distillation, High	-2 to 400°C	1°C	385mm	Total
TH-ASTM8F	8F / -	Distillation, High	30 to 760°F	2°F	385mm	Total
TH-ASTM9C	9C / 15C	Pensky-Martens, Low	-5 to 110°C	0.5°C	290mm	57mm
TH-ASTM9F	9F / 15F	Pensky-Martens, Low	20 to 230°F	1°F	290mm	57mm
TH-ASTM10C	10C / 16C	Pensky-Martens, High	90 to 370°C	2°C	290mm	57mm
TH-ASTM10F	10F / 16F	Pensky-Martens, High	200 to 700°F	5°F	290mm	57mm
TH-ASTM11C	11C / 28C	Open Flash	-6 to 400°C	2°C	310mm	25mm
TH-ASTM11F	11F / 28F	Open Flash	20 to 760°F	5°F	310mm	25mm
TH-ASTM12C	12C / 64C	Gravity (Density)	-20 to 102°C	0.2°C	420mm	Total
TH-ASTM12F	12F / 64F	Gravity (Density)	-5 to 215°F	0.5°F	420mm	Total
TH-ASTM13C	13C / 47C	Loss on Heat	155 to 170°C	0.5°C	155mm	Total

Please check website for up-to-date information

Mercury In Glass Thermometers

cont'd...

Product Code	ASTM/IP	Name	Range	Division	Max Len	Imm
TH-ASTM14C	14C / 17C	Paraffin Wax Melt Point	38 to 82°C	0.1°C	375mm	79mm
TH-ASTM15C	15C / 60C	Softening Point, Low	-2 to 80°C	0.2°C	397mm	Total
TH-ASTM15F	15F / -	Softening Point, Low	30 to 180°F	0.5°F	397mm	Total
TH-ASTM16C	16C / 61C	Softening Point, High	30 to 200°C	0.5°C	397mm	Total
TH-ASTM17C	17C / -	Viscosity Saybolt	19 to 27°C	0.1°C	275mm	Total
TH-ASTM17F	17F / -	Viscosity Saybolt	66 to 80°F	0.2°F	275mm	Total
TH-ASTM18C	18C / 23C	Reid Vapor Pressure	34 to 42°C	0.1°C	275mm	Total
TH-ASTM18F	18F / 23F	Reid Vapor Pressure	94 to 108°F	0.2°F	275mm	Total
TH-ASTM19C	19C / -	Saybolt Viscosity	49 to 57°C	0.1°C	275mm	Total
TH-ASTM20C	20C / -	Saybolt Viscosity	57 to 65°C	0.1°C	275mm	Total
TH-ASTM21C	21C / -	Saybolt Viscosity	79 to 87°C	0.1°C	275mm	Total
TH-ASTM21F	21F / -	Saybolt Viscosity	174 to 188°F	0.2°F	275mm	Total
TH-ASTM22C	22C / 24C	Oxidation Stability	95 to 103°C	0.1°C	275mm	Total
TH-ASTM22F	22F / 24F	Oxidation Stability	204 to 218°F	0.2°F	275mm	Total
TH-ASTM23C	23C / -	Engler Viscosity	18 to 28°C	0.2°C	212mm	90mm
TH-ASTM24C	24C / -	Engler Viscosity	39 to 54°C	0.2°C	237mm	90mm
TH-ASTM25C	25C / -	Engler Viscosity	95 to 105°C	0.2°C	212mm	90mm
TH-ASTM26C	26C / -	Stab. Test Sol. Nitrocellulose	130 to 140°C	0.1°C	463mm	Total
TH-ASTM27C	27C / -	Turpentine Distillation	147 to 182°C	0.5°C	301mm	76mm
TH-ASTM28C	28C / 31C	Kinematic Viscosity	36.6 to 39.4°C	0.05°C	305mm	Total
TH-ASTM28F	28F / -	Kinematic Viscosity	97.5 to 102.5°F	0.1°F	305mm	Total
TH-ASTM29C	29C / 34C	Kinematic Viscosity	52.6 to 55.4°C	0.05°C	305mm	Total
TH-ASTM30F	30F / 32F	Kinematic Viscosity	207.5 to 212.5°F	0.1°F	305mm	Total
TH-ASTM33C	33C / 20C	Aniline Point, Low	-38 to 42°C	0.2°C	420mm	50mm
TH-ASTM33F	33F / -	Aniline Point, Low	-36.5 to 107.5°F	0.5°F	420mm	50mm
TH-ASTM34C	34C / 21C	Aniline Point, Medium	25 to 105°C	0.2°C	420mm	50mm
TH-ASTM34F	34F / -	Aniline Point, Medium	77 to 221°F	0.5°F	420mm	50mm
TH-ASTM35C	35C / 59C	Aniline Point, High	90 to 170°C	0.2°C	420mm	50mm
TH-ASTM35F	35F / -	Aniline Point, High	194 to 338°F	0.5°F	420mm	50mm
TH-ASTM36C	36C / -	Titer Test	-2 to 68°C	0.2°C	405mm	45mm
TH-ASTM37C	37C / 77C	Solvents Distillation	-2 to 52°C	0.2°C	395mm	100mm
TH-ASTM38C	38C / 78C	Solvents Distillation	24 to 78°C	0.2°C	395mm	100mm
TH-ASTM39C	39C / 79C	Solvents Distillation	48 to 102°C	0.2°C	395mm	100mm
TH-ASTM40C	40C / 80C	Solvents Distillation	72 to 126°C	0.2°C	395mm	100mm
TH-ASTM41C	41C / 81C	Solvents Distillation	98 to 152°C	0.2°C	395mm	100mm
TH-ASTM42C	42C / 82C	Solvents Distillation	95 to 255°C	0.5°C	395mm	100mm

Please check website for up-to-date information

Mercury In Glass Thermometers

cont'd...

Product Code	ASTM/IP	Name	Range	Division	Max Len	Imm
TH-ASTM43C	43C / 65C	Kinematic Viscosity	-51.6 to -34°C	0.1°C	417mm	Total
TH-ASTM44C	44C / 29C	Kinematic Viscosity	18.5 to 21.5°C	0.05°C	305mm	Total
TH-ASTM45C	45C / 30C	Kinematic Viscosity	23.6 to 26.4°C	0.05°C	305mm	Total
TH-ASTM45F	45F / 30F	Kinematic Viscosity	74.5 to 79.5°F	0.1°F	305mm	Total
TH-ASTM46C	46C / 66C	Kinematic Viscosity	48.6 to 51.4°C	0.05°C	305mm	Total
TH-ASTM46F	46F / 66F	Kinematic Viscosity	119.5 to 124.5°F	0.1°F	305mm	Total
TH-ASTM47C	47C / 35C	Kinematic Viscosity	58.6 to 61.4°C	0.05°C	305mm	Total
TH-ASTM48C	48C / 90C	Kinematic Viscosity	80.6 to 83.4°C	0.05°C	305mm	Total
TH-ASTM48F	48F / 90F	Kinematic Viscosity	177.5 to 182.5°F	0.1°F	305mm	Total
TH-ASTM49C	49C / -	Stormer Viscosity	20 to 70°C	0.2°C	305mm	65mm
TH-ASTM52C	52C / -	Butadiene Boiling point	-10 to 5°C	0.1°C	162mm	Total
TH-ASTM53C	53C / -	Benzene Freezing Pt	-0.6 to 10.4°C	0.1°C	189mm	Total
TH-ASTM54C	54C / 18C	Congealing Point	20 to 100.6°C	0.2°C	310mm	Total
TH-ASTM56C	56C / -	Bomb Calorimeter	19 to 35°C	0.02°C	585mm	Total
TH-ASTM56F	56F / -	Bomb Calorimeter	66 to 95°F	0.05°F	585mm	Total
TH-ASTM59F	59F / -	Tank, Refill, Medium	0 to 180°F	1°F	300mm	Total
TH-ASTM61C	61C / 63C	Petrolatum Melting Pt	32 to 127°C	0.2°C	380mm	79mm
TH-ASTM61F	61F / -	Petrolatum Melting Pt	90 to 260°F	0.5°F	380mm	79mm
TH-ASTM62C	62C / -	Precision	-38 to 2°C	0.1°C	379mm	Total
TH-ASTM62F	62F / -	Precision	-36 to 35°F	0.2°F	379mm	Total
TH-ASTM63C	63C / -	Precision	-8 to 32°C	0.1°C	379mm	Total
TH-ASTM63F	63F / -	Precision	18 to 89°F	0.2°F	379mm	Total
TH-ASTM64C	64C / -	Precision	25 to 55°C	0.1°C	379mm	Total
TH-ASTM64F	64F / -	Precision	77 to 131°F	0.2°F	379mm	Total
TH-ASTM65C	65C / -	Precision	50 to 80°C	0.1°C	379mm	Total
TH-ASTM65F	65F / -	Precision	122 to 176°F	0.2°F	379mm	Total
TH-ASTM66C	66C / -	Precision	75 to 105°C	0.1°C	379mm	Total
TH-ASTM66F	66F / -	Precision	167 to 221°F	0.2°F	379mm	Total
TH-ASTM67C	67C / -	Precision	95 to 155°C	0.2°C	379mm	Total
TH-ASTM67F	67F / -	Precision	203 to 311°F	0.5°F	379mm	Total
TH-ASTM68C	68C / -	Precision	145 to 205°C	0.2°C	379mm	Total
TH-ASTM68F	68F / -	Precision	293 to 401°F	0.5°F	379mm	Total
TH-ASTM69C	69C / -	Precision	195 to 305°C	0.5°C	379mm	Total
TH-ASTM69F	69F / -	Precision	383 to 581°F	1°F	379mm	Total
TH-ASTM70C	70C / -	Precision	295 to 405°C	0.5°C	379mm	Total
TH-ASTM70F	70F / -	Precision	563 to 761°F	1°F	379mm	Total

Please check website for up-to-date information

Mercury In Glass Thermometers

cont'd...

Product Code	ASTM/IP	Name	Range	Division	Max Len	Imm
TH-ASTM71C	71C / 72C	Oil in Wax	-37 to 21°C	0.5°C	355mm	76mm
TH-ASTM72F	72F / 67F	Kinematic Viscosity	-2.5 to +2.5°F	0.1°F	305mm	Total
TH-ASTM73C	73C / 68C	Kinematic Viscosity	-41.4 to -38.6°C	0.05°C	305mm	Total
TH-ASTM74C	74C / 69C	Kinematic Viscosity	-55.4 to -52.6°C	0.05°C	305mm	Total
TH-ASTM82C	82C / -	Fuel Rating, Engine	-15 to 105°C	1°C	165mm	30mm
TH-ASTM82F	82F / -	Fuel Rating, Engine	0 to 220°F	2°F	165mm	30mm
TH-ASTM83C	83C / -	Fuel Rating, Air	15 to 70°C	1°C	174mm	40mm
TH-ASTM83F	83F / -	Fuel Rating, Air	60 to 160°F	1°F	174mm	40mm
TH-ASTM84C	84C / -	Fuel Rating, Orifice	25 to 80°C	1°C	387mm	249mm
TH-ASTM85C	85C / -	Fuel Rating, Surge	40 to 150°C	1°C	314mm	181mm
TH-ASTM85F	85F / -	Fuel Rating, Surge	100 to 300°F	2°F	314mm	181mm
TH-ASTM86C	86C / -	Fuel Rating, Mix	95 to 175°C	1°C	170mm	35mm
TH-ASTM86F	86F / -	Fuel Rating, Mix	200 to 350°F	2°F	170mm	35mm
TH-ASTM87C	87C / -	Fuel Rating, Coolant	150 to 205°C	1°C	175mm	40mm
TH-ASTM87F	87F / -	Fuel Rating, Coolant	300 to 400°F	1°F	175mm	40mm
TH-ASTM88C	88C / -	Vegetable Oil Flash	10 to 200°C	1°C	287mm	57mm
TH-ASTM89C	89C / -	Solidification Point	-20 to +10°C	0.1°C	370mm	76mm
TH-ASTM90C	90C / -	Solidification Point	0 to 30°C	0.1°C	370mm	76mm
TH-ASTM91C	91C / -	Solidification Point	20 to 50°C	0.1°C	370mm	76mm
TH-ASTM92C	92C / -	Solidification Point	40 to 70°C	0.1°C	370mm	76mm
TH-ASTM93C	93C / -	Solidification Point	60 to 90°C	0.1°C	370mm	76mm
TH-ASTM94C	94C / -	Solidification Point	80 to 110°C	0.1°C	370mm	76mm
TH-ASTM95C	95C / -	Solidification Point	100 to 130°C	0.1°C	370mm	76mm
TH-ASTM96C	96C / -	Solidification Point	120 to 150°C	0.1°C	370mm	76mm
TH-ASTM97F	97F / -	Tank, Refill	0 to 120°F	1°F	300mm	Total
TH-ASTM98C	98C / -	Tank, Refill	16 to 82°C	0.5°C	300mm	Total
TH-ASTM98F	98F / -	Tank, Refill	60 to 180°F	1°F	300mm	Total
TH-ASTM99C	99C / -	Weathering Test	-50 to +5°C	0.2°C	305mm	35mm
TH-ASTM99F	99F / -	Weathering Test	-58 to 41°F	0.5°F	305mm	35mm
TH-ASTM100C	100C / -	Solidification Point	145 to 205°C	0.2°C	370mm	76mm
TH-ASTM101C	101C / -	Solidification Point	195 to 305°C	0.5°C	370mm	76mm
TH-ASTM102C	102C / 83C	Solvents Distillation	123 to 177°C	0.2°C	395mm	100mm
TH-ASTM103C	103C / 84C	Solvents Distillation	148 to 202°C	0.2°C	395mm	100mm
TH-ASTM104C	104C / 85C	Solvents Distillation	173 to 227°C	0.2°C	395mm	100mm
TH-ASTM105C	105C / 86C	Solvents Distillation	198 to 252°C	0.2°C	395mm	100mm
TH-ASTM106C	106C / 87C	Solvents Distillation	223 to 277°C	0.2°C	395mm	100mm
TH-ASTM107C	107C / 88C	Solvents Distillation	248 to 302°C	0.2°C	395mm	100mm

Please check website for up-to-date information

Mercury In Glass Thermometers

cont'd...

Product Code	ASTM/IP	Name	Range	Division	Max Len	Imm
TH-ASTM110C	110C / 93C	Kinematic Viscosity	133.6 to 136.4°C	0.05°C	305mm	Total
TH-ASTM110F	110F / -	Kinematic Viscosity	272.5 to 277.5°F	0.1°F	305mm	Total
TH-ASTM111C	111C / -	Tar Acid Distillation	170 to 250°C	0.2°C	395mm	100mm
TH-ASTM114C	114C / 14C	Aviation Fuel Freezing Pt.	-80 to 20°C	0.5°C	300mm	Total
TH-ASTM116C	116C / -	Bomb Calorimeter	18.9 to 25.1°C	0.01°C	609mm	Total
TH-ASTM117C	117C / -	Bomb Calorimeter	23.9 to 30.1°C	0.01°C	609mm	Total
TH-ASTM118C	118C / -	Kinematic Viscosity	28.6 to 31.4°C	0.05°C	305mm	Total
TH-ASTM120C	120C / 92C	Kinematic Viscosity	38.6 to 41.4°C	0.05°C	305mm	Total
TH-ASTM121C	121C / 32C	Kinematic Viscosity	98.6 to 101.4°C	0.05°C	305mm	Total
TH-ASTM122C	122C / 94C	Brookfield Viscosity	-45 to -35°C	0.1°C	300mm	Total
TH-ASTM123C	123C / 95C	Brookfield Viscosity	-35 to -25°C	0.1°C	300mm	Total
TH-ASTM124C	124C / 96C	Brookfield Viscosity	-25 to -15°C	0.1°C	300mm	Total
TH-ASTM125C	125C / 97C	Brookfield Viscosity	-15 to -5°C	0.1°C	300mm	Total
TH-ASTM126C	126C / 71C	Kinematic Viscosity	-27.4 to -24.6°C	0.05°C	305mm	Total
TH-ASTM127C	127C / 99C	Kinematic Viscosity	-21.4 to -18.6°C	0.05°C	305mm	Total
TH-ASTM128C	128C / 33C	Kinematic Viscosity	-1.4 to +1.4°C	0.05°C	305mm	Total
TH-ASTM129C	129C / 36C	Kinematic Viscosity	91.6 to 94.4°C	0.05°C	305mm	Total
TH-ASTM130C	130C / -	Tank Gauging, Refill	-7 to 110°C	0.5°C	305mm	Total

Please check website for up-to-date information



Testing & Calibration Services

Capillary Viscometer Recalibration

Designed specifically to keep your costs to a minimum. Send your viscometers to us for cleaning and full UKAS recalibration.

- Cleaning and full recalibration in accordance with ASTM D 445/ D 446
- Available with a UKAS 17025 certificate of calibration or non calibrated
- Repacking into a viscometer box
- Damaged viscometers can be assessed and quoted prior to repair and calibration

Product Code	Description
CS-RASTM/UB	Recalibration Ubbelohde
CS-RBS/U/M	Recalibration BS/U Tube Miniature
CS-RBS/U	Recalibration BS/U Tube
CS-RBS/IP/SL(S)	Recalibration BS/IP/SL Short Form
CS-RBS/IP/SL	Recalibration BS/IP/Suspended Level
CS-RBS/IP/RF	Recalibration BS/IP/ Reverse Flow
CS-RRBS/IP/MSL	Recalibration BS/IP/Miniature Suspended Level
CS-RCFO	Recalibration Cannon Fenske Opaque
CS-RCFR	Recalibration Cannon Fenske Routine

Please check website for up-to-date information

Hydrometer Calibration

Hydrometer Calibration Service, UKAS ISO 17025 Certified.

We are able to offer a calibration service for Hydrometers within a range of 600 kg/m³ to 2000 kg/m³ with best measurement capability from 0.05 kg/m³.

This service is available in conjunction with products from our Hydrometer Range and is also offered as a recalibration service.

Product Code	Description
CS-HYD-UKAS	ISO 17025 Hydrometer Calibration

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Thermometer Calibration

Paragon Scientific can offer full ISO 17025 calibration on all Thermometers.

This service is available in conjunction with products from our Thermometer Range and is also offered as a recalibration service.

For more details, visit our website, call or email.

Product Code	Description
CS-TH1UKC	UKAS 1 Point Thermometer Calibration
CS-TH2UKC	UKAS 2 Point Thermometer Calibration
CS-TH3UKC	UKAS 3 Point Thermometer Calibration
CS-TH4UKC	UKAS 4 Point Thermometer Calibration
CS-TH5UKC	UKAS 5 Point Thermometer Calibration

Please check website for up-to-date information

Viscosity Testing Accessories

A high quality range of accessories for use with manual glass capillary viscometers.

Product Code	Description
VIS-TH-CFO	Holder for Cannon Fenske Opaque Viscometer
VIS-TH-CFR	Holder for Cannon Fenske Routine Viscometer
VIS-TH-HGR	Viscometer Hanger
VIS-TH-UORF	Holder for BS/IP U Tube Opaque Reverse Flow
VIS-TH-UBB	Holder for Ubbelohde
VIS-TH-TRSL	Holder for U-Tube BS/IP (Ostwald) Transparent & Routine Suspended Level
BM1-20L	Viscosity Bath Media, White Oil for use in the range 40°C to 80°C
BM1-5L	Viscosity Bath Media, White Oil for use in the range 40°C to 80°C
BM2-20L	Viscosity Bath Media, White Oil for use in the range 80°C to 120°C
BM2-5L	Viscosity Bath Media, White Oil for use in the range 80°C to 120°C
BM5-20L	Viscosity Bath Media, Silicone Fluid for use in the range 120 to 150°C
BM5-5L	Viscosity Bath Media Silicone Fluid for use in the range 120 to 150°C
BM6-20L	Viscosity Bath Media Silicone Fluid for use in the range 90 to 120°C
BM6-5L	Viscosity Bath Media Silicone Fluid for use in the range 90 to 120°C
BM7-20L	Viscosity Bath Media Silicone Fluid for use in the range 60 to 110°C
BM7-5L	Viscosity Bath Media Silicone Fluid for use in the range 60 to 110°C
BM8-20L	Viscosity Bath Media Silicone Fluid for use in the range 40 to 100°C
BM8-5L	Viscosity Bath Media Silicone Fluid for use in the range 40 to 100°C
10T6090	8 Channel Stop-watch

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Main Agent Status

Their reputation for providing leading edge, proven solutions has gained us Main Agent Status for world leading manufacturers.

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Tamson Instruments offers a quality range of thermostatic bath products. Their products offer reliable and accurate temperature regulation of fluids where accuracy beyond 0.01 degree centigrade can be achieved. The product range provides exact temperature controlling from a range of -95°C to $\pm 250^{\circ}\text{C}$. Their equipment can be found in many diverse areas of research across industrial fields such as petroleum industry, universities, research institutes and quality control laboratories. Their main markets are being found in chemical, quality control and product processing, along with research and development industries. The production range comprises mainly of circulator baths, water re-circulators, immersion and re-circulation coolers, viscometer baths and viscometer accessories.

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Stanhope-Seta design and manufacture petroleum test equipment and quality control instruments used to measure the physical characteristics that determine product quality and consistency.

Over the last fifty years, Stanhope-Seta have established a reputation for the supply of petroleum test instruments whose advanced capabilities, accuracy and reliability are a worldwide benchmark for many product quality measurements. There are now more than 100 quality control instruments in the Stanhope-Seta product range which are used for the measurement of Flash Point, Vapour Pressure, Viscosity, Penetration, Contaminants and many other "quality" parameters.

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Lovibond® Tintometer® supplies visual automated colour measurement systems for the accurate and easy measurement of liquids and solids.

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Lovibond® Tintometer® is ISO 9001:2008 certified and is UKAS accredited as a calibration laboratory.

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The latest version to be introduced to the popular RFM900 range of Peltier controlled digital refractometers is the RFM990-AUS32.

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All RFM900 refractometers and the ADP440+ polarimeter features RFID user access, an audit trail function for use in FDA 21 CFR Part 11 controlled environments and conform to the minimum requirements of pharmacopeia (BP/EP/USP) allowing operation within a busy pharmaceutical laboratory.

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