

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

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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

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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

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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	40.6		
										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
										3	74.6		
										4	45.3		
C100	324.1	280.3	0.8649	4mm	72.3	4	88.7	5	99.5	4	94.9	2	106.6
										5	28.8		
										6	48.7		
										5	50.9		
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		
										4	47.6		
										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

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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			4	20.8
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
														5	19.4
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	-	-

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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	-	-

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
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

Cont...

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

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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.

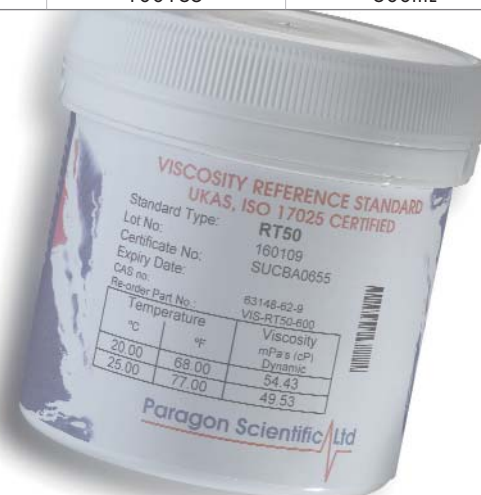
Safer working, less mess, less waste, higher throughput.

- 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 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