

# Viscosity Standards

Reagecon now offers an exciting range of certified, accurate and traceable Viscosity Standards. These products can be used for calibration, control, verification, qualification or method validation of kinematic and dynamic viscosity measurement instruments (both manual and automatic). All of the products are traceable to the ITS-90 Temperature scale and the universally accepted Primary Standard value of the viscosity of water at 20°C, defined as 1.0034mm<sup>2</sup>/s (cSt) by ISO3666.

## The products offer the following additional benefits;

- Manufactured and certified according to ASTM D2162 using Ubbelohde Master Viscometers.
- This is the internationally recognised primary method for Viscosity Standard certification.
- Each standard is certified for Kinematic Viscosity (mm<sup>2</sup>/s,cSt), Dynamic Viscosity (cP) and Density (g/ml) at a range of temperatures.
- The testing of this product is performed by a third party on behalf of Reagecon and is not covered by Reagecon's scope of accreditation to ISO 17025 (INAB Ref. 264T).
- Extended shelf life.
- Attractive secure packaging.
- Certificates of Analysis and safety data sheets available on-line for every batch manufactured.
- Manufactured from high quality, stable base oils and additives.
- All standards observe Newtonian Fluid behaviour.

Reagecon has an extensive Research and Development facility based in Shannon, Ireland. Several speciality and additional ranges of viscosity standards are currently under development. These include Silicone Standards for the calibration of Rotational Viscometers.



## Reagecon Viscosity Standards: Nominal Kinematic Viscosity, Dynamic Viscosity & Density

Individual batches' certified viscosity values will vary from the data given below an absolute maximum of 10%, but typically less than 5%. Individual batches' certified values will be shown to 4 significant figures for all parameters on their Certificate of Analysis.

Prod Code	KINEMATIC VISCOSITY mm <sup>2</sup> /s (cSt)					DYNAMIC VISCOSITY mPa.s (cP)					DENSITY (g/ml)				
	20°C	25°C	37.78°C	40°C	50°C	20°C	25°C	37.78°C	40°C	50°C	20°C	25°C	37.78°C	40°C	50°C
REVIS-N.4	0.47	0.45	0.41	0.40	-	0.31	0.29	0.26	0.25	-	0.66	0.66	0.64	0.64	-
REVIS-N.8	0.74	0.70	0.61	0.60	-	0.50	0.47	0.41	0.40	-	0.69	0.69	0.68	0.68	-
REVIS-N1.0	1.3	1.2	1.0	0.97	0.87	0.91	0.84	0.71	0.69	0.61	0.73	0.72	0.71	0.71	0.70
REVIS-N2	2.9	2.6	2.1	2.0	1.7	2.1	1.9	1.5	1.4	1.2	0.72	0.72	0.71	0.71	0.70
REVIS-S3	4.4	3.9	3.0	2.9	2.4	3.6	3.2	2.4	2.3	1.9	0.82	0.82	0.81	0.81	0.80
REVIS-N4	6.7	5.8	4.2	4.0	3.2	5.5	4.8	3.4	3.2	2.6	0.84	0.83	0.83	0.82	0.82
REVIS-S6	10	8.7	6.0	5.7	4.4	8.7	7.4	5.0	4.7	3.7	0.84	0.84	0.83	0.83	0.82
REVIS-N7.5	14	12	8.0	7.5	5.8	12	10	6.7	6.3	4.8	0.85	0.85	0.84	0.84	0.83
REVIS-N10	20	16	11	10	7.5	18	15	9.3	8.7	6.4	0.84	0.83	0.82	0.82	0.82
REVIS-N14	30	24	15	14	10	25	20	12	11	8.2	0.84	0.83	0.83	0.82	0.82
REVIS-S20	43	34	20	18	13	36	29	17	15	11	0.85	0.85	0.84	0.84	0.83
REVIS-N26	59	47	27	25	18	46	37	22	20	14	0.84	0.84	0.83	0.83	0.82
REVIS-N35	88	66	35	32	21	76	58	30	28	18	0.87	0.87	0.86	0.86	0.85
REVIS-N44	110	87	48	44	30	85	66	37	35	23	0.84	0.84	0.83	0.83	0.82
REVIS-S60	160	120	60	54	35	140	110	54	49	31	0.88	0.87	0.87	0.86	0.86
REVIS-N75	210	160	83	75	50	170	130	69	63	42	0.84	0.84	0.83	0.83	0.82
REVIS-N100	320	220	110	95	59	270	190	91	81	50	0.88	0.88	0.87	0.87	0.86
REVIS-N140	400	300	160	140	90	360	270	140	120	78	0.84	0.83	0.83	0.83	0.82
REVIS-S200	550	400	200	180	110	460	340	170	150	95	0.84	0.84	0.83	0.83	0.82
REVIS-N250	790	580	280	250	160	690	500	250	220	140	0.84	0.84	0.83	0.83	0.82
REVIS-N350	980	710	340	310	190	834	609	294	262	161	0.84	0.84	0.83	0.83	0.82
REVIS-N415	1400	1000	470	410	250	1200	840	390	350	210	0.85	0.84	0.84	0.83	0.83
REVIS-S600	1800	1300	590	520	310	1700	1200	540	480	280	0.85	0.85	0.84	0.84	0.83
REVIS-N750	2700	1800	850	760	440	2300	1600	710	640	370	0.85	0.85	0.84	0.84	0.83
REVIS-N1000	3300	2300	1100	940	560	2800	2000	940	790	460	0.86	0.85	0.85	0.84	0.83
REVIS-N1400	4900	3500	1600	1400	830	4100	3000	1300	1200	690	0.84	0.84	0.83	0.83	0.82
REVIS-S2000	8400	5300	1900	1600	810	7300	4700	1700	1400	710	0.88	0.87	0.87	0.87	0.86
REVIS-N2500	8300	5900	2700	2400	1400	7000	5000	2200	2000	1200	0.84	0.84	0.83	0.83	0.82
REVIS-N4000	19000	12000	4100	3400	1700	16000	10000	3600	3000	1500	0.88	0.88	0.88	0.87	0.87
REVIS-N5100	28000	17000	6000	5100	2500	24000	15000	5200	4400	2100	0.89	0.89	0.88	0.88	0.87
REVIS-S8000	41000	25000	8000	6700	3200	32000	20000	7000	5900	2800	0.90	0.89	0.89	0.89	0.88
REVIS-N10200	58000	36000	12000	10000	4900	51000	32000	11000	8100	4400	0.89	0.89	0.88	0.88	0.88
REVIS-N15000	77000	47000	16000	13000	6100	64000	41000	14000	12000	5000	0.89	0.89	0.88	0.88	0.88
REVIS-N18000	100000	64000	21000	18000	8500	89000	56000	19000	16000	7500	0.90	0.89	0.89	0.89	0.88
REVIS-S30000	-	79000	28000	23000	11000	-	69000	23000	20000	9000	-	0.89	0.89	0.89	0.88