

New From CONOSTAN®

Division of SCP SCIENCE



Six General Purpose Mineral Oil Viscosity Standards

CONOSTAN, the trusted name in oil based standards announces the availability of 6 General Purpose Viscosity Reference Standards manufactured in accordance with ASTM D 2162.

CONOSTAN certified mineral oil viscosity standards were developed for calibration and verification of all types of viscometers, including glass capillary viscometers, rotational viscometers, cup and falling ball viscometers.

All standards are traceable to National Standards and according to ASTM & IP methods. Each standard carries a two year stability guarantee.

The determination of kinematic and dynamic viscosity were made in accordance with ASTM D 445/446 and ISO 3104/3105, ISO/IEC 17025 and are traceable to the NIST (National Institute of Standards and Technology). See specifications overleaf.

All calibrations are based on the master viscometer procedures as in ASTM D 2162 and the National Institute of Standards and Technology (NIST) value of 1.0016 mPa.s (centipoise) for water at 20°C (68°F).

These six standards represent the first of an expanding range of standards. Custom standards within the range are available. Please contact us for the most recent information.

| Viscosity Standards | Volume | | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| | 125 ml | 500 ml | 1 L | 4 L | 20 L |
| S6 | 150-600-141 | 150-600-142 | 150-600-143 | 150-600-144 | 150-600-145 |
| N10 | 150-600-181 | 150-600-182 | 150-600-183 | 150-600-184 | 150-600-185 |
| S20 | 150-600-221 | 150-600-222 | 150-600-223 | 150-600-224 | 150-600-225 |
| N35 | 150-600-261 | 150-600-262 | 150-600-263 | 150-600-264 | 150-600-265 |
| S60 | 150-600-301 | 150-600-302 | 150-600-303 | 150-600-304 | 150-600-305 |
| N100 | 150-600-341 | 150-600-342 | 150-600-343 | 150-600-344 | 150-600-345 |

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MK-MKG003-VISC-1.0-E

Typical Specifications for Conostan Viscosity Standards

| Viscosity Standards | Kinematic Viscosity in mm ² /s (Centistokes) | | | | | | | | | Saybolt Viscosity |
|---------------------|---|---------------|-------------------|----------------|----------------|----------------|----------------|-------------------|-----------------|-------------------|
| | 20°C/ 68°F | 25°C/ 77°F | 37.78°C/ 100°F | 40°C/ 104°F | 50°C/ 122°F | 60°C/ 140°F | 80°C/ 176°F | 98.89°C/ 210°F | 100°C/ 212°F | |
| S6 | 10 | 8.8 | 6.0 | 5.7 | 4.5 | 3.6 | 2.5 | 1.9 | 1.9 | |
| N10 | 21 | 17 | 11 | 10 | 7.5 | 5.8 | 3.7 | 2.7 | 2.6 | |
| S20 | 46 | 35 | 20 | 18 | 13 | 9.0 | 5.6 | 3.6 | 3.5 | 87 |
| N35 | 90 | 67 | 36 | 32 | 21 | 15 | 8.4 | 5.4 | 5.3 | 167 |
| S60 | 160 | 119 | 60 | 54 | 35 | 26 | 12 | 7.7 | 7.5 | 281 |
| N100 | 318 | 228 | 110 | 97 | 60 | 39 | 20 | 11 | 11 | 509 |

| Viscosity Standards | Dynamic Viscosity in mPa.S (Centipoise) | | | | | | | | | Saybolt Viscosity |
|---------------------|---|---------------|-------------------|----------------|----------------|----------------|----------------|-------------------|-----------------|-------------------|
| | 20°C/ 68°F | 25°C/ 77°F | 37.78°C/ 100°F | 40°C/ 104°F | 50°C/ 122°F | 60°C/ 140°F | 80°C/ 176°F | 98.89°C/ 210°F | 100°C/ 212°F | |
| S6 | 8.7 | 7.3 | 5.0 | 4.7 | 3.6 | 2.9 | 2.0 | 1.5 | 1.4 | |
| N10 | 18 | 14 | 9.0 | 8.4 | 6.2 | 4.7 | 3.0 | 2.1 | 2.1 | |
| S20 | 40 | 30 | 17 | 15 | 11 | 7.6 | 4.7 | 2.9 | 2.9 | 87 |
| N35 | 78 | 59 | 31 | 28 | 18 | 13 | 7.0 | 4.4 | 4.3 | 167 |
| S60 | 138 | 102 | 52 | 46 | 30 | 22 | 9.9 | 6.3 | 6.1 | 281 |
| N100 | 276 | 197 | 94 | 83 | 51 | 33 | 16 | 9.4 | 9.1 | 509 |

| Viscosity Standards | Density in g/ml in accordance with ASTM D7042 | | | | | | | | |
|---------------------|---|---------------|-------------------|----------------|----------------|----------------|----------------|-------------------|-----------------|
| | 20°C/ 68°F | 25°C/ 77°F | 37.78°C/ 100°F | 40°C/ 104°F | 50°C/ 122°F | 60°C/ 140°F | 80°C/ 176°F | 98.89°C/ 210°F | 100°C/ 212°F |
| S6 | 0.831 | 0.828 | 0.819 | 0.818 | 0.811 | 0.805 | 0.791 | 0.779 | 0.778 |
| N10 | 0.842 | 0.839 | 0.831 | 0.829 | 0.823 | 0.816 | 0.804 | 0.791 | 0.791 |
| S20 | 0.871 | 0.868 | 0.860 | 0.859 | 0.852 | 0.846 | 0.833 | 0.821 | 0.820 |
| N35 | 0.872 | 0.869 | 0.861 | 0.860 | 0.853 | 0.847 | 0.834 | 0.823 | 0.822 |
| S60 | 0.863 | 0.860 | 0.852 | 0.851 | 0.845 | 0.839 | 0.826 | 0.815 | 0.814 |
| N100 | 0.867 | 0.864 | 0.857 | 0.855 | 0.849 | 0.843 | 0.831 | 0.820 | 0.819 |