

Low Temperature Viscosity Standards

| Product Code | Temp °C | Temp °F | Viscosity Range mm ² s (cSt) | Dynamic Viscosity mPa.s (cP) | Density mPa.s (cP) |
|--------------|---------|---------|--|---------------------------------|--------------------|
| JF1 | -20 | -4 | 5.230 | | |
| JF2 | -40 | -40 | 11.45 | | |
| J10 | -40 | -40 | 898.0 | | |
| J13 | -10 | ** | 309.8 | | |
| P60W0C | 0 | 32 | 60.16 | | |
| | -30 | ** | 463.1 | | |
| | -40 | -40 | 1164 | | |
| N2B | 0 | 32 | 4.710 | 3.866 | 0.8208 |
| | -20 | -4 | 9.052 | 7.559 | 0.8351 |
| N14B | -25 | -13 | 1754 | 1607 | |
| | -30 | ** | 3535 | 3251 | |
| | -35 | -35 | 7661 | 7072 | |
| | -40 | -40 | 18334 | 16985 | |
| N27B | -17.78 | 0 | 1251 | 1147 | 0.9169 |
| | -23.33 | -10 | 2572 | 2368 | 0.9205 |
| | -26.11 | -15 | 3808 | 3513 | 0.9225 |
| | -28.89 | -20 | 5765 | 5329 | 0.9243 |
| | -34.44 | -30 | 14348 | 13315 | 0.9280 |
| | -40 | -40 | 40141 | 37395 | 0.9316 |
| N105B | -19 | -2.2 | 30679 | 26617 | 0.8676 |
| | -19.5 | -3.1 | 32543 | 28247 | 0.8680 |
| | -20 | -4 | 34518 | 29967 | 0.8682 |
| | -20.5 | -4.9 | 36643 | 31824 | 0.8685 |
| | -21 | -5.8 | 38897 | 33794 | 0.8688 |
| | -25 | -13 | 64477 | 56192 | 0.8715 |
| N115B | -6.67 | 20 | 11054 | 9533 | 0.8624 |
| | -12.22 | 10 | 19758 | 17108 | 0.8659 |
| | -17.78 | 0 | 37204 | 32353 | 0.8696 |
| | -23.33 | -10 | 74636 | 65157 | 0.8730 |
| | -26.11 | -15 | 109055 | 95380 | 0.8746 |
| | -28.89 | -20 | 162919 | 142782 | 0.8764 |
| N120B | -39 | -38.20 | 145950 | 127779 | 0.8755 |
| | -39.50 | -39.10 | 158130 | 138474 | 0.8757 |
| | -40 | -40 | 171623 | 150342 | 0.8760 |
| | -40.50 | -40.90 | 186276 | 163234 | 0.8763 |
| | -41 | -41.80 | 202414 | 177436 | 0.8766 |
| N400B | -24 | -11.2 | 59860 | 52340 | 0.8744 |
| | -24.5 | -12.1 | 63970 | 55950 | 0.8747 |
| | -25 | -13 | 68480 | 59920 | 0.8750 |
| | -25.5 | -13.9 | 73170 | 64050 | 0.8753 |
| | -26 | -14.8 | 78180 | 68450 | 0.8756 |

| | | | | | |
|--------|--------|-------|--------|--------|--------|
| N480B | -25 | -13 | 128500 | 120400 | 0.9373 |
| | -25.5 | -13.9 | 142500 | 133600 | 0.9376 |
| | -26 | -14.8 | 158200 | 148400 | 0.9378 |
| | -26.11 | -15 | 162600 | 152500 | 0.9380 |
| | -26.5 | -15.7 | 175200 | 164400 | 0.9383 |
| | -27 | -16.6 | 196000 | 184000 | 0.9386 |
| N1400B | -11 | 12.2 | 136512 | 126191 | 0.9244 |
| | -11.5 | 11.3 | 148141 | 136986 | 0.9247 |
| | -12 | 10.4 | 161693 | 149566 | 0.9250 |
| | -12.22 | 10 | 167815 | 155246 | 0.9251 |
| | -12.5 | 9.5 | 176115 | 162959 | 0.9253 |
| | -13 | 8.6 | 192125 | 177850 | 0.9257 |

All values stated are nominal - 28/08/2011

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