

TYPICAL PROPERTIES

DMF Fluid Data Sheet

Grade	Viscosity centistokes (cs) 25°C (77°F)	Specific gravity 25°C (77°F)	Volatile matter (%) 150°C (302°F), 24 hrs.	V.T.C.*	Refractive index 25°C (77°F)	Pour point °C (°F)	Flash point °C (°F)
	0.65	0.65±0.065	0.755~0.760	B.P 100±2°C	0.31±0.01	1.374~1.376 -68 (-90)	-1 (30)
DM-Fluids L (Low Viscosity)	1.0	1.0±0.1	0.816~0.820	B.P 153±5°C	0.37±0.01	1.381~1.383 -86 (-123)	35 (95)
	1.5	1.5±0.15	0.850~0.855	B.P 195±5°C	0.46±0.01	1.386~1.388 -76 (-105)	50 min. (122)
	2.0	2.0±0.2	0.870~0.875	B.P 230±5°C	0.48±0.01	1.390~1.392 -84 (-119)	75 min. (167)
	5.0	5.0±0.5	0.910~0.920	-	-	1.385~1.410	90 min. (194)
	10	10±1	0.930~0.940	50.0 max.	0.55±0.01	1.398~1.400 -60 max. (-76)	160 min. (320)
	20	20±2	0.945~0.955	5.0 max.	0.57±0.01	1.400~1.401 -60 max. (-76)	240 min. (464)
	30	30±3	0.950~0.960	1.5 max.	0.58±0.01	1.401~1.402 -50 max. (-58)	260 min. (500)
	50	50±2.5	0.955~0.965	0.5 max.	0.59±0.01	1.401~1.403 -50 max. (-58)	300 min. (572)
DM-Fluids (Medium Viscosity)	100	100±5	0.960~0.970	0.5 max.	0.59±0.01	1.402~1.403 -50 max. (-58)	300 min. (572)
	300	300±15	0.965~0.975	0.5 max.	0.60±0.01	1.402~1.404 -50 max. (-58)	315 min. (599)
	350	350±17	0.965~0.975	0.5 max.	0.60±0.01	1.402~1.404 -50 max. (-58)	315 min. (599)
	500	500±25	0.965~0.975	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	1,000	1,000±50	0.965~0.975	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	3,000	3,000±150	0.965~0.975	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	6,000	6,000±300	0.970~0.980	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	10,000	10,000±500	0.970~0.980	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	12,500	12,500±620	0.970~0.980	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	30,000	30,000±1,500	0.970~0.980	0.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	50,000	50,000±2,500	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
DM-Fluids H (High Viscosity)	60,000	60,000±3,000	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -50 max. (-58)	315 min. (599)
	100,000	100,000±5,000	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -45 max. (-49)	315 min. (599)
	300,000	300,000±15,000	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -45 max. (-49)	315 min. (599)
	500,000	500,000±25,000	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -45 max. (-49)	315 min. (599)
	1,000,000	1,000,000±50,000	0.970~0.980	1.5 max.	0.60±0.01	1.403~1.404 -45 max. (-49)	315 min. (599)

- * V.T.C. (viscosity temperature coefficient) is frequently used as the factor that shows viscosity change with temperature. The smaller the V.T.C., the lower the viscosity change.
- * V.T.C. is calculated from the formula.

$$V.T.C. = 1 - \frac{\text{Kinematic viscosity at } 210^{\circ}\text{F (98.9}^{\circ}\text{C)}}{\text{Kinematic viscosity at } 100^{\circ}\text{F (37.8}^{\circ}\text{C)}}$$

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