

MULTIGARD PROPYLENE GLYCOL

This is a heat transfer fluid with an organic acid based formulation which contains no nitrites, amines, borates, or phosphates. This will provide a pH of 8.0 - 8.5 in 50% heat transfer fluids. It is designed for multi-metal systems made entirely or partly of aluminum which protects all commonly used metals that are compatible with most plastic and elastomers. Our Multigard PG can be used in any heating/cooling system but is usually recommended for high aluminum content systems operating over 65°C. Azoles are included to supplement "soft" metal protection (copper, brass, solder and aluminum). The organic salts used will coat all metal surfaces and protect it from corrosion. The water used to dilute can be low hardness, city or well water although deionized or distilled water is best.

SPECIFIC GRAVITY, 60°F	1.035
PROPYLENE GLYCOL, VOLUME %	96
FLASH POINT, °F	220
COLOUR	PURPLE

MIXING TABLE

VOL. % PROPYLENE GLYCOL	VOL. % FINISHED PRODUCT	FREEZE POINT, °F	BOILING POINT, °F
15	15.6	23.6	215
30	31.2	3.7	220
40	41.6	-2.7	223
50	52.1	-34.6	226

In order to continue to provide superior quality, BOSS LUBRICANTS reserves the right to change composition of its products without notice. For the location of the Distributor nearest you, please call 1-800-844-9457. BOSS LUBRICANTS #112, 6303 30th Street S.E. Calgary, AB T2C 1R4



MULTIGARD PROPYLENE GLYCOL

MIXING TABLE

60	62.5	-60	228
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PERFORMANCE SPECIFICATIONS

PHYSICAL PROPERTY	TEMP °F SOLUTION	15% GLYCOL SOLUTION	30% GLYCOL SOLUTION	40% GLYCOL SOLUTION	50% GLYCOL SOLUTION	60% GLYCOL SOLUTION
THERMAL CONDUCTIVITY [BTU/(HR-FT3)(°F/FT)]	40	0.265	0.253	0.234	0.215	0.199
THERMAL CONDUCTIVITY [BTU/(HR-FT3)(°F/FT)]	180	0.307	0.291	0.267	0.241	0.22
THERMAL CONDUCTIVITY [BTU/(HR-FT3)(°F/FT)]	250	0.31	0.293	0.269	0.245	0.224
SPECIFIC HEAT [BTU/LB- °F]	40	0.885	0.862	0.82	0.774	0.724
SPECIFIC HEAT [BTU/LB- °F]	180	0.933	0.915	0.883	0.849	0.816
SPECIFIC HEAT [BTU/LB- °F]	250	0.958	0.944	0.913	0.882	0.845

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VISCOSITY, CENTIPOISE	40	3.11	3.59	4.94	6.81	9.93
VISCOSITY, CENTIPOISE	180	0.59	0.66	1.82	0.96	1.09
VISCOSITY, CENTIPOISE	250	0.37	0.4	0.47	0.55	0.59
DENSITY, (LB/FT3)	40	65.19	65.71	66.61	67.5	68.33
DENSITY, (LB/FT3)	180	62.9	63.31	64.1	64.83	65.55
DENSITY, (LB/FT3)	250	61.05	61.42	62.15	62.81	63.44

APPLICATIONS RECOMMENDED FOR USE IN:

- HVAC SYSTEMS
- SOLAR HEATING
- COLD ROOM DEHUMIDIFY
- SIDEWALK SNOW MELTING SYSTEMS
- PROCESS COOLING/HEATING
- REFRIGERATION WAREHOUSE FLOOR HEATING
- ICE SKATING RINKS

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