

## Propylene Glycol Antifreeze & Coolant

### DESCRIPTION

Nemco Propylene Glycol Antifreeze & Coolant is a non-toxic antifreeze blended with propylene glycol (PG) and a very low percentage of inhibitor. Recommended use temperature range is -45°C (-50°F) to 160°C (325°F). Nemco Propylene Glycol Antifreeze & Coolant is formulated with technical grade (not food grade) propylene glycol rather than ethylene glycol, the base used for traditional antifreeze. While attaining performance characteristics comparable to ethylene glycol-based antifreeze, propylene glycol antifreeze provides the additional benefit of being non-toxic and therefore safer than ethylene glycol coolants.

### Applications

- Heat transfer agent for boiler systems
- Organic synthesis
- Antifreeze solution
- Solvent for fats, oils, waxes, etc.
- Coolant in refrigeration systems
- Plasticizer
- Bactericide
- Textile conditioner
- Emulsifier
- Anti-caking agent
- Preservative
- De-icing fluids for airport runways

**Note** - For the applications above, additional additives may be required for optimum performance

### Typical characteristics – Propylene Glycol Antifreeze & Coolant

Test	Performance				Test Method
	Pure	30/70	50/50	60/40	
Appearance / colour	Clear / Pink				
Specific gravity, 15.6°C (60°F)	1.036*	1.017	1.041	1.046	ASTM D1122
Freeze point, °C (°F)	Super cool	-14	-34	-48	ASTM D1177
Boiling point, °C (°F)	186	100.5	105.5	107.2	ASTM D1120
Total glycol (% wt.), min	95	30	50	60	
Inhibitors and water (% wt.), max	5	70	50	40	
<i>*Tested under 20°C</i>					

*Physical characteristics shown in the table are typical and may vary slightly.*