



## Product Data Sheet

### 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  $-45^{\circ}\text{C}$  ( $-50^{\circ}\text{F}$ ) to  $160^{\circ}\text{C}$  ( $325^{\circ}\text{F}$ ). Nemco Propylene Glycol Antifreeze & Coolant is formulated with 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
- Feed additive
- Anti-caking agent
- Preservative
- De-icing fluids for airport runways

#### Notes

For the applications above, additional additives should be added into the product.

## Typical characteristics – Propylene Glycol Antifreeze

| 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   | -38   | 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    |             |
| *Tested under 20°C               |              |       |       |       |             |

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