

Propylene Glycol

Inhibited and Dyed Industrial Antifreeze & Coolant

Description

Nemco Propylene Glycol Inhibited and Dyed Industrial Antifreeze & Coolant is a non-toxic heat transfer fluid blended with propylene glycol (PG) and a very low percentage of inhibitor. The pink dye identifies that the material is inhibited. Recommended use temperature range is -45°C (-50°F) to 160°C (325°F).

Nemco Propylene Glycol Antifreeze & Coolant is formulated with industrial grade propylene glycol rather than ethylene glycol; the base used for traditional antifreeze. While attaining performance characteristics comparable to ethylene glycol-based antifreeze, inhibited propylene glycol antifreeze provides the additional benefit of being non-toxic and therefore safer than ethylene glycol coolants. **When using Nemco's' inhibited propylene glycol, additional treatment must be considered before adding to heating/cooling systems in order to meet pH and corrosion prevention requirements.**

Applications

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

Typical physical characteristics – Propylene Glycol, Inhibited

Properties	Performance (ratio of PG to water by volume)						
	Conc.	30:70	35:65	40:60	50:50	60:40	70:30
Appearance / colour	Clear / Pink						
Specific gravity, 20°C	1.030	1.026	n/a	n/a	1.036	1.060	n/a
pH (no dilution)	10.0 – 10.5	8.0 – 9.0					
Freeze point, °C	-51.1	-13.9	-17.2	-22.2	-35	-51.1	-51.1
Burst point, °C	n/a	-29.6	-43.3	<-51.1	<-51.1	<-51.1	<-51.1
Boiling point, °C	154	102	102.7	103.8	105.5	107.2	110
Conductivity, µS/cm (ASTM D1287 mod) */ approx. TDS	8 / 5	325 / 208	n/a	n/a	160 / 102	115 / 74	n/a
Glycol, % wt. (inhibited)	≥97	≥28	≥34	≥39	≥48.5	≥58.5	≥68.5
Water, % wt. (city)	≤2	≤71	≤65	≤60	≤51	≤41	≤31

These characteristics are typical of current production, variations in these characteristics may occur.



Product Data Sheet

Availability and product codes – Propylene Glycol, Inhibited (PG:Water)

Pack size	20L pail	205L drum	FG Bulk
PG Concentrate	AIAFZ0008	AIAFZ0025	AIAFZ0051
PG 30:70	AIAFZ0009	AIAFZ0026	AIAFZ0041
PG 35:65	N/A*	AIAFZ0049*	AIAFZ0050*
PG 40:60	N/A*	N/A*	N/A*
PG 50:50	AIAFZ0010	AIAFZ0027	AIAFZ0042
PG 60:40	AIAFZ0007	AIAFZ0024	AIAFZ0039
PG 70:30	N/A*	N/A*	AIAFZ0017*

For products marked with “*” please contact your local Nemco Sales Representative.

Use and Storage

Propylene Glycol concentrate should be diluted prior to use. For best performance as a heat transfer fluid, it is recommended concentrate be premixed with distilled, deionized, or demineralized water. Always check your equipment manufacturer’s specifications for use. Inhibited PG typically has a shelf life of 2 to 3 years under ideal storage conditions; keep packages closed while not in use, store in a cool and dry area.

Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at nemco.ca under the Safety Data Sheets. For SDS in French, please contact info@nemco.ca. This material is WHMIS 2015 classified. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used glycol to an authorized collection point. Avoid discharge into drains, soil, or water. As with any chemical, keep out of reach of children and animals.

Quality

Nemco works with respected industry suppliers and our propylene glycol can meet ASTM E202^{^^}. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001. For questions regarding quality, please contact your local sales representative.

^{^^}Must be requested at time of order or inquiry