



ig-loo™ Propylene Glycol PGFG Technical Data

PGFG IS DESIGNED FOR FOOD GRADE APPLICATIONS

ig-loo™ PGFG is acceptable for use as a heat transfer fluid where there is possibility of incidental food contact. ig-loo PGFG is registered under Category Code (HT1), NSF Registration No.169143 designed for use in water systems in food grade facilities where it may come into incidental or accidental contact with food, beverage products or drinking water may occur. It could be used in HVAC systems, fire systems, solar heating, refrigeration warehouse floor heating, sidewalk/playing field subsurface heating/cooling, cold room dehumidification systems.

ig-loo PGFG contains dipotassium phosphate as its primary inhibitor. **Contains GRAS ingredients, or "Generally Recognized as Safe" ingredients by the FDA and acceptable as Direct Food Additives (Food Additives Regulations, Subparts 182 and 184).** The regulation for Propylene Glycol 21 CFR 1821666 and Dipotassium Phosphate is CFR 182.6285. It also meets Food Chemicals Codex (Fourth Edition).



Nonfood Compounds
HT1

ig-loo PGFG inhibitor package contains ingredients that help prevent corrosion of metals, minimizes scaling and fouling of heat transfer surfaces, and buffers the pH to maintain it in the optimum operating range. The inhibitor system is a high phosphate formulation and is compatible with all common metals in heat transfer fluid systems and is compatible with most plastic construction materials.

ig-loo PGFG recommended operating temperature range is -45°F (-50°C) to +250°F (120°C). The lowest temperature to which the finished product can be exposed depends upon the amount of water with which the concentration of product mixed. igloo provides both freezing protection and burst protection for systems which may be exposed to very low temperatures. igloo PGFG may be formulated to any concentration, with deionized water.

ig-loo™ PREDILUTED PROPYLENE GLYCOL

ig-loo Prediluted is a formulated pre-mixed ready-to-use Propylene Glycol. Water quality concerns are no longer limited to our drinking water. Due to the high total hardness in wells or municipal water system, boiler equipment manufacturers are now more cautious than ever. When mixing propylene glycol on-site, poor water quality can lead to long-term damage to heating systems. ig-loo addressed those concerns, with a ready-to-use glycol that eliminates these water quality concerns. ig-loo Prediluted can be introduced directly into systems with no on-site dilution and is premixed with deionized water ensuring no mineral content or hardness levels exists by the elimination of chlorides, which are second only to oxygen as a leading cause of heating system corrosion. ig-loo Prediluted blends are available in 25, 30, 35, 40, 45, 50, 55, 60 and 70% propylene glycol concentrations.

Please check with the equipment manufacturer of the system to determine compatibility with this product. Minimum flow protection levels are estimated and are dependent on system and equipment.



APPROVALS & LISTINGS

Category Code (HT1): NSF Registration No. 169143
 Conforms to ASTM D1384 corrosion protection.

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 The regulation for: • Propylene Glycol: 21 CFR 1821666 • Dipotassium phosphate is CFR 182.6285.



Nonfood Compounds
 HT1

PHYSICAL PROPERTIES OF ig-loo PGFG

	ig-loo	PGFG 70	PGFG 50	PGFG 45	PGFG 40	PGFG 35	PGFG 30	PGFG 25
PG RATIO	96%	70%	50%	45%	40%	35%	30%	25%
100% VIRGIN PG	YES	YES	YES	YES	YES	YES	YES	YES
NSF Food Grade (HT1)	YES	YES	YES	YES	YES	YES	YES	YES
Color	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE	CLEAR BLUE
Freeze Point @ 100% @ 50%	Below -60°F -23.1°F	Below -60°F +2.4°F	-29.8°F +14.0°F	-17.2°F *	-6.9°F *	+1.8°F *	+9.2°F *	+9.2°F *
Freeze Point @ 100% @ 50%	Below -51.1°C -30.6°C	-51.1°C -16.4°C	-34.3°C -10.0°C	-27.3°C *	-21.6°C *	-16.8°C *	-12.7 °C *	-12.7°C *
Burst Point @ 100%	-100.0°F	-100.0°F	-85.0°F	-65.0°F	-60.0°F	-48.0°F	-16.0°F	-16.0°F
pH	10.0 to 11.0	9.0 to 10.5	9.0 to 10.5	9.0 to 10.5	9.0 to 10.5	9.0 to 10.5	9.0 to 10.5	9.0 to 10.5
Boiling Point (°F)	310°F	230°F	225°F	220°F	219°F	217°F	216°F	214°F
Temperature Rating	250°F	250°F	250°F	250°F	250°F	250°F	250°F	250°F

*Minimum recommended Concentration is 25%

*The burst protection temperature is an estimate only and it will be affected by system design as well as the materials used in its construction.

For additional information contact: info@iglooglycol.com



Printed in USA

ig-loo 101 8.14.24



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