



ig-loo™ Propylene Glycol PGHD Technical Data

PGHD IS DESIGNED FOR HEATING, COOLING APPLICATIONS

ig-loo™ PGHD heat transfer fluid is a heavy-duty formulation of 100% virgin propylene glycol and a specially formulated package of industrial corrosion inhibitors for use in closed systems with copper, brass, solder, steel, cast-iron and aluminum. You can count on a consistent formulation like **ig-loo PGHD** to provide reliable, long-lasting protection and performance. The use of a high-quality heat transfer fluid and corrosion inhibitor package prolongs the fluid life and helps lower the cost of ownership.

ig-loo PGHD inhibitor package meets or exceeds industry standards when tested according to ASTM D8039, D8040 and D1384 methods. It is compatible with most plastics, elastomers, and types of rubber. It also contains tolyltriazole which is primarily used for the protection of copper and metal alloys used in cooling water or boiler systems by the industrial water treatment industry. Tolyltriazole decreases the corrosion rate of metals and alloys by forming a coating, or passivation layer, which prevents access of the corrosive substance to the metal or alloy underneath. This is of particular importance in industries where fluids routinely need to be in continuous contact with metals that require protection.

ig-loo PGHD protects all metals found in heat transfer fluid systems. **ig-loo PGHD** controls the corrosion of metals, helps prevent scaling and fouling of heat transfer surfaces and buffer the pH to maintain it in the optimum operating range. The inhibitor system is based on a high-phosphate, multi-component formulation. **ig-loo PGHD** operating temperature range of -60°F to +350°F (-50°C to 177°C) and can be used to provide both freeze and burst protection for systems which may be exposed to very low temperatures. **ig-loo PGHD** is not approved as an NSF category HT1 for use as a heat transfer fluid where incidental contact with food is possible.

Water used to dilute the fluid can be low-hardness, city water or well water, although the use of deionized water is best. It is recommended that water with no more than 170 ppm hardness be used to dilute the concentrate or be used as make-up water. Higher hardness levels may cause excessive inhibitor consumption, scale deposits, and metal pitting.

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 Prediluted** addresses those concerns, with a ready-to-use antifreeze that eliminates these water quality concerns. **ig-loo Prediluted** can be introduced directly into systems with no on-site dilution. **ig-loo Prediluted** is premixed with deionized water ensuring no mineral content or hardness levels and 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

Conforms to ASTM D8039, D8040 and D1384 corrosion protection.

PHYSICAL PROPERTIES OF ig-loo™ PGHD

	ig-loo	PGHD 60	PGHD 55	PGHD 50	PGHD 45	PGHD 40	PGHD 35	PGHD 30	PGHD 25
PG RATIO	95%	60%	55%	50%	45%	40%	35%	30%	25%
100% VIRGIN PG	YES	YES	YES	YES	YES	YES	YES	YES	YES
Food Grade (HT1)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Color	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW	PINK YELLOW
Freeze Point @ 100%	Below -60°F	Below -60°F	-42.8°F	-28.3°F	-16.1°F	-6.0°F	+2.4°F	+9.2°F	+14.0°F
@ 50%	-23.1°F	+9.2°F	+11.5°F	+14.0°F	*	*	*	*	*
Freeze Point @ 100%	Below -51.1°C	Below -51.1°C	-41.5°C	-31.0°C	-24.0°C	-20.0°C	-16.0°C	-13.0 °C	-10.0°C
@ 50%	-30.6 °C	-12.7°C	-11.4°C	-9.6°C	*	*	*	*	*
Burst Point @ 100%	-100 °F	-100 °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	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8	9.5 to 10.8
Boiling Point (°F)	310°F	225°F	223°F	222°F	220°F	219°F	217°F	216°F	214°F
Temperature Rating	350°F	350°F	350°F	350°F	350°F	350°F	350°F	350°F	350°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



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