



# Triafrost - PGX

Triafrost

Heat Transfer Fluids

- **Inhibited Propylene Glycol based Heat Transfer Fluid**
- **Heavy Duty Industrial grade, suitable for use with a wide range of ferrous and non ferrous metals**
- **Low Toxicity**
- **Prevents corrosion**

Triafrost PGX is a propylene glycol based heat transfer fluid. Triafrost PGX contains a package of specially formulated inhibitors that help prevent corrosion and thermal breakdown. Propylene glycol (PG) is a superior product in terms of consumer safety and the environment.

Triafrost PGX can be used for secondary cooling and heating, freeze and burst protection of pipes, defrosting, dehumidifying and various deicing. Triafrost PGX is suitable for use with common metals found in HVAC and industrial systems including aluminum, copper, steel, brass, solder, and cast iron.

**Recommended use temperature range:** -60°F(-51°C) to 250°F(121°C)

PG does not persist in the environment. It is readily consumed by microorganisms. In an activated sludge treatment plant operating at 65 deg F, PG is fully degraded within 24 hours. Please refer to the MSDS for proper health, safety and disposal information.

### Typical Properties of Triafrost PGX

Property	
Spec Gravity @ 60f	1.048-1.065
pH	9.5-10.5
Reserve Alkalinity, ml	15-16
Color	water white

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**Typical freeze and boiling points of Triafrost PGX fluid at various concentrations**

Volume Percent Triafrost	Freezing Point, °C, °F	Boiling Point °C, °F	Refractive Index 22°C
5.5	-1.6, 29.1	100, 212	1.3383
10.5	-3.3, 26.1	100, 212	1.3438
21.0	-7.1, 19.2	100.6, 213	1.3555
31.5	-12.7, 9.2	102.2, 216	1.3675
42.5	-21.1, -6.0	103.9, 219	1.379
53.5	-33.5, -28.3	105.6, 222	1.3903
64.5	-51.1, -59.9	107.2, 225	1.4008
80.0	> -60f	113.9, 237	1.415
96.0	> -60f	132.2, 270	1.4275

**Typical concentrations of Triafrost PGX fluid required to provide freeze and burst protection**

Temperature		Percentage of Triafrost PGX fluid concentration required	
		Freeze protection	Burst protection
°C	°F	percent volume	percent volume
-7	20	19.5	13.0
-12	10	31.5	22.0
-18	0	38.5	26.0
-23	-10	45.0	30.0
-29	-20	49.5	32.5
-34	-30	53.5	36.0
-40	-40	58.5	38.0
-46	-50	61.5	38.0
-51	-60	64.5	38.0

\*Triafrost usage solutions less than 25-30% may not provide adequate corrosion protection and maybe at risk for bacterial contamination.

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