

NEW OFFERING

MAINTENANCE FLUID

Cryo-Tek™ -100 Glycol Antifreeze

The propylene glycol antifreeze that charges the Loo's cold weather toilet closed-loop system. Keep a gallon on hand for the annual top-up.



FREEZE PROTECTION

-70°F

-57°C, undiluted. Burst protection to -100°F

FORMULA

55% virgin PG

Ready-to-use propylene glycol with corrosion inhibitors

NEW SYSTEM CHARGE

~1.5 + 1.5 gal

Cryo-Tek + water fills the 2.5 gal tank, hoses and loop

KEEP IN STOCK

1 gallon

Part #35281, for immediate refill of the loop

OVERVIEW

Hercules Cryo-Tek -100 is the heat-transfer fluid in Madden Fabrication's cold weather toilet recirculating system: the closed loop that runs through the EMT250 mini tank, the circulating pump and the hoses.

A new system is charged with Cryo-Tek mixed with water at 50/50 or 60/40. Check it every year: a low or weak mix won't protect against freezing and will corrode the tank, pump and hoses.

KEY FEATURES

- 1 Certified cold performance**
Undiluted, it protects against freezing to -70°F, stays pumpable to -80°F and protects against burst to -100°F.
- 2 Triple Protection inhibitors**
Protects cast iron, steel, copper, brass and solder, which covers the metals in the tank, pump and fittings.
- 3 Virgin propylene glycol**
Made with non-recycled propylene glycol, not ethylene glycol. Odorless red liquid with a pH of 8.5-10.0.
- 4 Wide closed-loop range**
Rated to 250°F in closed systems. Works with PEX, elastomeric tubing and common seal materials.

MIX RATIO SETS THE PROTECTION

CRYO-TEK : WATER	CONCENTRATION	FREEZE	PUMPABLE	BURST
Undiluted	100%	-70°F / -57°C	-80°F / -62°C	-100°F / -73°C
3 : 2 60/40 Loo charge	60%	0°F / -18°C	-10°F / -23°C	-40°F / -40°C
1 : 1 50/50 Loo charge	50%	+10°F / -12°C	+5°F / -15°C	-20°F / -29°C

Figures from the Hercules Cryo-Tek -100 data sheet. Pumpable limits are estimates. Running the pump below the fluid's freeze point can overload it. Use the 60/40 mix at the coldest sites.

CONSTRUCTION & SPECIFICATIONS

Product	Hercules Cryo-Tek™ -100 Anti-Freeze (Oatey), corrosion resistant
Composition	55% virgin propylene glycol and water with a Triple Protection corrosion inhibitor package. Ready to use, or dilute with water (see page 1).
Certified performance	Undiluted: freeze -70°F (-57°C) · pumpable -80°F (-62°C) · burst -100°F (-73°C)
Operating temperature	Up to 250°F (121°C) in closed systems
Physical properties	pH 8.5–10.0 · specific gravity 1.04–1.054 (60–65°F) · about 8.7 lb/gal · boils at 212–230°F depending on the mix · flash point >212°F
Appearance	Pink/red liquid, odorless
Compatible with	Cast iron, steel, copper, brass, solder, PEX and elastomeric tubing
Do not use with	Aluminum heat exchangers (use Cryo-Tek -100/AL) · galvanized piping (dissolves zinc) · CPVC (not tested) · other brands' glycol (don't mix)
In the Loo	Charges the cold weather toilet closed loop: the 2.5 gal EMT250 mini tank, the circulating pump, hoses and the custom loop. A new system takes about 1.5 gal Cryo-Tek + 1.5 gal water.
Safety	Causes mild skin and eye irritation. Keep out of reach of children. Read the Safety Data Sheet before use.

ORDERING OPTIONS

OPTION	STANDARD	AVAILABLE ON REQUEST
Container	1 gallon jug, #35281 STD	5 gallon pail, #35284 · 30 gallon drum, #35286 · 55 gallon drum, #35287
Use	Annual top-up spare	Charging new or drained systems, fleets of Loos

VIEWS



1 gallon, #35281. The recommended spare for annual top-ups.



1 gallon, back. Installation instructions are printed on the label.



5 gallon pail, #35284. For charging new or drained systems.

MAINTENANCE TIP: CHECK THE LOOP EVERY YEAR

Before winter, check that the loop is full and test the mix with a propylene glycol refractometer or Cryo-Tek test strips. Automotive coolant testers don't read propylene glycol correctly. Top up with the same mix ratio. If the pH has dropped below 8.5, the inhibitors are spent: add inhibitor or drain, flush and recharge with fresh Cryo-Tek. A gallon on the shelf means the loop can be refilled right away.