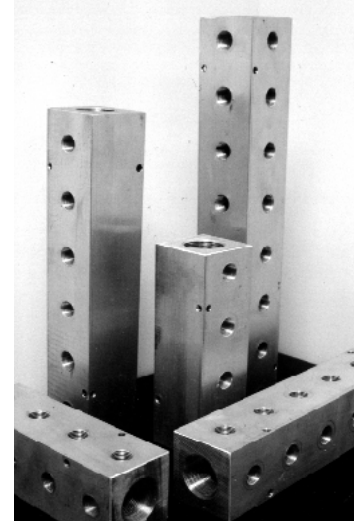


Cooling Products

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Items highlighted in red are NEW items for this catalog!

Ethylene Glycol

Inhibited Ethylene Glycol

Ethylene Glycols are used in applications involving secondary cooling and heat transfer, providing freeze and burst protection. Plain water and "antifreeze" type products do not have the proper inhibitor package for these heavy industrial uses.

Compared with inhibited glycols, uninhibited glycols oxidize in the presence of air and heat, forming acids. These acids can be corrosive to the metal in a system. Inhibited glycols neutralize the acids formed and thus protect against corrosion.

Applications:

Ethylene Glycol Inhibited is almost odorless, easily mixes with water, and is moderately toxic.

Ethylene Glycol Inhibited is effective from -60° to 250°F.

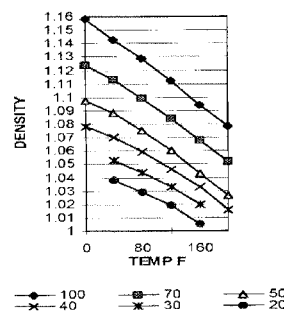
The proper concentration to use is a function of the lowest anticipated temperature. Try to provide protection about 5° lower than this. However, for best corrosion protection do not go below 30% by volume.



Inhibited

Part Number	Container Size	Price Quantity	Each
ELG2-5	5 Gal.	1 To 3	\$90
ELG2-5	5 Gal.	4 To 10	\$84
ELG2-55	55 Gal.	1-2	\$996
ELG2-55	55 Gal.	3+	\$866

ETHYLENE GLYCOL SOLUTION DENSITIES



Uninhibited Ethylene Glycol

- % Pure Ethylene Glycol Circulator Fluid, No additives
- % Guaranteed analysis by Shell
- % For use from -40° to +250°F (Dilute)
- % Good rust preventative properties
- % Non-corrosive, will not build-up
- % High Flash point, +240° F
- % Shipped from stock
- % Compare our quality, Compare our price!

Shell® Brand Uninhibited

Part Number	Container Size	Price Quantity	Each
ELG5	5 Gal.	1 To 3	\$78.00
ELG5	5 Gal.	4 To 10	\$73.20
ELG55	55 Gal.	1-2	\$780.00
ELG55	55 Gal.	3+	\$762.00

Heat Transfer Fluid



Therminol XP heat transfer fluid is an extremely pure white mineral oil which provides reliable heat transfer 0° to 600°F. Performance features of Therminol XP include:

- **Low Fouling** - The purity of Therminol XP minimizes fouling as a result of oxidation and degradation of the fluid, provided proper attention is given to system design and operation within the maximum bulk and film temperatures specified.
- **Practically Non-Toxic** - As an indicator of purity, Therminol XP meets FDA specifications defined in 21 CFR 172.878 and requirements of United States Pharmacopeia (USP) and National Formulary (NF).
- **Thermal Stability** - Therminol XP is stable to 600°. Users can expect many years of reliable, trouble free operation, even when operating continuously at the recommended maximum temperature of 600°

operating continuously at the recommended maximum temperature of 600°

- **Environmentally Friendly** - Therminol XP has outstanding regulatory status for those seeking heat transfer fluids which have minimum environmental reporting requirements.

Therminol XP is used in a wide variety of industries, such as:

- Plastic Molding Equipment
- Pharmaceuticals
- Specialty Chemicals
- Laundries



55 Gallon Drum



5 Gallon Pail

Appearance	Colorless, odorless liquid
Composition	White mineral oil, USP/NF
Flash Point (ASTM D-92)	182° C (360° F)
Fire Point (ASTM D-92)	196° C (385° F)
Autoignition Temperature (ASTM D-2155)	324° C (615° F)
Kinematic Viscosity , at 40° C	23.7 mm ² /s (cSt)
at 100° C	4.06 mm ² /s (cSt)
Density at 25° C	875 kg/m ³ (7.30 lb/gal)
Specific Gravity (60° F/60° F)	0.882
Coefficient of Thermal Expansion at 200° C	0.000892/°C (0.000495/° F)
Average Molecular Weight	350
Pour Point	-29° C (-20° F)
Pumpability , at 2000 mm ² /s (cSt)	-20° C (-4° F)
at 300 mm ² /s (cSt)	-1° C (30° F)
Minimum Temperatures for	
Fully Developed Turbulent Flow (Re = 10000)	
10 ft/sec, 1-in tube	72° C (162° F)
20 ft/sec, 1-in tube	51° C (123° F)
Transition Region Flow (Re = 2000)	
10 ft/sec, 1-in tube	30° C (85° F)
20 ft/sec, 1-in tube	17° C (63° F)
Boiling Range ,	10%
	332° C (630° F)
	90%
	416° C (780° F)
Normal Boiling Point	358° C (676° F)
Heat of Vaporization at Maximum	
Use Temperature 315° C	214 kJ/kg (91.9 Btu/lb)
Optimum Use Range	-20° C to 315° C (0° F to 600° F)
Maximum Film Temperature	330° C (625° F)
Pseudocritical Temperature	542° C (1007° F)
Pseudocritical Pressure	15.2 bar (220 psia)
Pseudocritical Density	280 kg/m ³ (17.5 lb/ft ³)
Vapor Pressure, psia @	
200° F	0.0005
300° F	0.003
400° F	0.147
500° F	0.967
600° F	4.72

Therminol XP™

Part Number	Container Size	Price/Container	
		1-5	6+
HTFXP5	5 Gallon	\$123.60	\$108.00
HTFXP55	55 Gallon	\$1,359.60	\$1,268.40

Shipping Weight: 5 Gallon/41 Lbs, 55 Gallon/465 Lbs

featuring the best of:

Northern Supply (800-365-6565) • Nickerson Machinery (800-821-9534) • OHS (Ontario-888-809-7050/Quebec-888-475-9224)