



DELTA-THERM™ LD

NATURAL GAS DEHYDRATION

Product Description

DELTA-THERM LD is a chemically engineered triethylene glycol-based liquid desiccant developed for natural gas dehydration systems. Formulated with a proprietary blend of organic and inorganic corrosion inhibitors that will protect critical system components, enhance fluid stability, and offer extended service life compared to uninhibited or recycled triethylene glycol. Unique benefits of DELTA-THERM LD include:

Higher Reserve Alkalinity: effectively buffers the solutions pH and minimizes the impact of organic acids produced by the degradation of triethylene glycol during the regeneration phase.

Exceptional Saturation Properties: provides excellent dew point depression and enhanced hydrocarbon separation.

Unmatched Corrosion Protection: safeguards carbon steel system components from the corrosive effects of organic acids and impurities in the gas stream.

DELTA-THERM LD and PROTOCOL brand heat transfer fluids are custom blended to meet critical performance specifications. All products are available in sizes from 5-gallon pails to bulk tanker quantities and come backed by a comprehensive glycol analysis program to ensure years of trouble-free service.





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Technical Data

Typical* Composition: DELTA-THERM LD

Triethylene Glycol	≥ 95
Inhibitors	≥ 4
Color	Water-White
Specific Gravity	~ 1.120 - 1.130
pH, 50% solution	~ 9.0 - 10.0
Reserve Alkalinity, new	> 4.0 (min)

Typical* Properties: DELTA-THERM LD

BP @ 760 mm Hg	~ 410°F
Flash Point	~ 330°F
VP mm Hg (400°F)	~ 73
Thermal Conductivity (400°F)	~ 0.13
Specific Heat (400°F)	~ 0.73
Viscosity, cP (68°F)	~ 48.0

Typical Physical Properties for Glycols used as Liquid Desiccants

Type	Molecular Weight	Specific Gravity	Boiling Point °F @ 760 mm	Vapor Pressure mm Hg (68°F)	Freeze Point °F	Viscosity cPs (68°F)	Heat of Vaporization Btu.lb (1 atm)	Flash Point °F (T.C.C)
MEG	62.07	1.1155	387	<0.1	8.6	20.0	370	240
DEG	106.12	1.1184	474	<0.01	17.9	36.0	240	290
TEG	150.18	1.1255	550	<0.01	24.3	49.0	166	330
TTEG	194.23	1.1247	Decomposes	<0.01	20.8	62.0	161	N/A

*Typical Properties, not to be construed as specifications.