

Technical Bulletin

HUNTSMAN

JEFFCOOL® E100N INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

GENERIC NAMES	Inhibited ethylene glycol; antifreeze
DESCRIPTION	An inhibited ethylene glycol based heavy-duty stationary engine industrial coolant.
APPLICATIONS	A heavy-duty coolant for stationary engines in applications such as natural gas processing, irrigation, power generating systems, oilfield operations, and portable air compressors. JEFFCOOL E100N coolant is especially formulated to provide protection of cylinder liners from cavitation corrosion. Use in engines containing aluminum cylinder heads is not recommended. JEFFCOOL E100N coolant has been tested by the ASTM D1384 corrosion test and found to pass by both ASTM D3306 and D4985. JEFFCOOL E100N coolant is fully compatible with other water/glycol products designed for similar applications.

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method *</u>
Appearance	Slightly hazy and free of suspended solids	
Color	Blue	
Water, wt%	4.0	D-1123
Specific Gravity, 60/60 F	1.12 min. ; 1.15 max.	D-1122
Reserve Alkalinity, ml	10.5 min. ; 14.0 max.	D-1121
pH, 33% solution	9.5 min ; 10.5 max.	D-1187
Freezing Pt., 50% vol., F (C)	-34 ; (-37)	D-1177
Equilibrium boiling pt. F, (C)	300 (149)	D-1120
Nitrite, ppm	3500 min.	

* Test methods are available upon request.

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TYPICAL PROPERTIES

Physical Properties

Density, 60°F, lb/gal	9.43
Flash point, COC, °F	260
Boiling point, °F	388
Reserve alkalinity, ml	12.0
Solubility in water	Complete

PRODUCT SAFETY POLICY

It is the product safety policy of Huntsman Petrochemical Corporation to provide our customers with information on the safe handling and use of our products. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed. Information on the toxicity, environmental, and industrial hygiene aspects of our products may be found in the MSDS.

HANDLING AND STORAGE

JEFFCOOL E100N coolant may be stored in unlined carbon steel tanks and drums. If storage of undiluted JEFFCOOL E100N coolant for periods exceeding 12 months is desired, it is recommended that the storage vessels be constructed from aluminum, stainless steel, or lined carbon steel. Vinyl, epoxy, and phenolic linings are suitable. Amercoat®-23 and Amercoat®-75 linings have been found satisfactory. Stocks of JEFFCOOL E100N coolant should be rotated every two to three years, if possible.

The normal precautions associated with any chemical should be observed in handling JEFFCOOL E100N coolant, although it is neither explosive nor flammable under normal storage conditions. The ethylene glycol in JEFFCOOL E100N coolant is toxic if taken internally. Splashes onto eyes or skin must be washed away quickly and medical treatment is advised for eye exposure. Breathing of the vapors or mists should be avoided. For additional information, see the MSDS.

SHIPPING

JEFFCOOL E100N coolant is available in tank wagons and 55-gallon, nonreturnable steel drums. Bulk and drum inventory is available at select locations throughout the United States. Contact your local Huntsman Sales Representative for details.