

Technical Bulletin

JEFFCOOL[®] 103N INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

GENERIC NAME	Inhibited ethylene glycol
DESCRIPTION	JEFFCOOL [®] E103N is an inhibited, pre-diluted ethylene glycol-based stationary engine coolant for industrial applications. JEFFCOOL [®] E103N is a 30% by volume blend of JEFFCOOL [®] E100N coolant and deionized water.
APPLICATIONS	JEFFCOOL [®] E103N is 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 [®] E103N coolant is especially formulated to provide protection of cylinder liners from cavitation corrosion. JEFFCOOL [®] E103N coolant passes the ASTM D1384 corrosion test per the limits set in ASTM D3306, D4985 and D6210. Use in engines containing aluminum cylinder heads should be avoided. JEFFCOOL [®] E103N coolant is fully compatible with other ethylene glycol-based products designed for similar applications.

For applications where ingestion of the fluid by mammals is a possibility, select the corresponding JEFFCOOL[®] P150N series propylene glycol-based fluid.

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Slightly hazy and free of suspended solids	ST-30.1
Freeze point, as is		ASTM D3321
°C	-14 max.	
°F	+6 max.	
pH, as is	9.5 – 10.5	ASTM D1287
Reserve Alkalinity, mL 0.1 N HCl using a 30 mL sample	10.0 – 14.0	ASTM D1121
Specific gravity, 60/60°F	1.03 – 1.06	ASTM D1122
Water, wt%	72 max.	ASTM D1123

*Methods of Test are available from Huntsman Corporation upon request.

ADDITIONAL INFORMATION

Regulatory Information

See SDS for all regulatory information.

Typical Properties

Flash point, COC, °C (°F)	>93 (>200)
Boiling point, °C (°F)	104 (219)
Color	Blue
Density, lb/US gal, 60°F	8.7
Viscosity, cSt, 20°C (68°F)	3
Water solubility, %	>10

TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

HANDLING AND STORAGE

JEFFCOOL[®] E103N coolant may be stored in unlined carbon steel tanks and drums. If storage of concentrated JEFFCOOL[®] E103N coolant for periods over 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.

For detailed information on the storage and handling of JEFFCOOL[®] E103N coolant, see our bulletin on "Storage and Handling of JEFFCOOL[®] Coolants."

AVAILABILITY

JEFFCOOL[®] E103N coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory of JEFFCOOL[®] E103N is available at select locations throughout the United States.

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