Technical Bulletin

HUNTSMAN

JEFFCOOL® E-100 INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

GENERIC NAMES Inhibited ethylene glycol

DESCRIPTION An inhibited ethylene glycol based industrial coolant and heat transfer fluid. A slightly hazy liquid, free of suspended solids with a slight odor.

APPLICATIONS A heat transfer fluid for line heaters, for snow melting systems on loading ramps, walkways, highways, and runways; a coolant for ice rinks and air conditioning systems; a heat transfer medium for solar energy collection systems.

SALES SPECIFICATIONS

Property	Specifications	Test Method *
Color	Red to match standard	
Water, wt.%	4.0 max.	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-1287
67% solution	-- --	
Freezing point 100% vol., °F	--	D-1177
50% vol., °F (°C)	-34 (-37) max.	
Equilibrium boiling point, °F (°C)	300 (149) min.	D-1120

* Test methods are available upon request.

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TYPICAL PROPERTIES

Physical Properties	
Ash, wt. %	2.0
Density, 60F, lb/gal	9.42
Flash point, COC, F	260
Refractive index, n_D, 77F	1.3848
50% vol. % aqueous solution	
Reserve alkalinity	12.0

PRODUCT SAFETY POLICY

It is the product safety policy of Huntsman 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 E-100 coolant may be stored in unlined carbon steel tanks and drums. If storage of undiluted JEFFCOOL E-100 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. Stocks of JEFFCOOL E-100 coolant should be rotated every two to three years, if possible.

The normal precautions associated with any chemical should be observed in handling JEFFCOOL E-100 coolant, although it is neither explosive nor flammable under normal storage conditions. The ethylene glycol in JEFFCOOL E-100 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 E-100 coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory is available at select locations throughout the United States. Contact your local Huntsman Sales Representative for details.