

Technical Bulletin**JEFFCOOL® E-105
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. A 50% by volume mixture of JEFFCOOL E-100 and deionized water.
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*
Appearance	Clear and free of suspended solids	ST-61
Color	Red to match standard	
Freezing point, °F 100 vol% solution, °F	-34°F max.	ASTM D-1177
pH, 67% solution	9.5 min. – 10.5 max.	ASTM D-1287
Reserve Alkalinity, mL	10.0 min. - 14.0 max.	ASTM D-1121
Specific Gravity, 60/60°F	1.06 min – 1.09 max.	ASTM D-1122
Water, wt%	53.0 max.	ASTM D-1123

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

ADDITIONAL INFORMATION**Regulatory Information**

DOT Classification	Not regulated for drums
TDG Classification	Not Regulated
HMIS Code	2-0-0
WHMIS Classification	D1B, D2A

Chemical Control Laws

Australia, AICS	Listed
Canada, DSL	Listed
Europe, EINECS/ELINCS	Listed
Japan, METI	Not determined
United States, TSCA	Listed

Typical Physical Properties

Boiling point, °C (°F)	93.3 – 121.1 (200 – 250)
Density, lb/gal, 60°F	9.42
Flash point, COC, °F	260
Melting Point, °C (°F)	-36.5 (-34)
pH	10.2
Specific Gravity	1.08
Vapor Pressure, mmHg, 20°C (68°F)	> 0.1
Viscosity, cSt, 20°C (68°F)	< 18.7
Water Solubility, %	>10

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-105 coolant may be stored in unlined carbon steel tanks and drums. If storage of undiluted JEFFCOOL E-105 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 E-105 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-105 coolant, although it is neither explosive nor flammable under normal storage conditions. The ethylene glycol in JEFFCOOL E-105 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-105 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.

AVAILABILITY

Samples are available by contacting our sample department at 1-800-662-0924.

**Huntsman Corporation
Business Offices**

10003 Woodloch Forest Dr.
The Woodlands, TX 77380
(281) 719-6000

**Huntsman Advanced Technology
Center**

Technical Service
8600 Gosling Rd.
The Woodlands, TX 77381
(281) 719-7780

Samples 1-800-662-0924

www.huntsman.com

Copyright © 2007 Huntsman Corporation or an affiliate thereof. All rights reserved.

JEFFCOOL[®] is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

Huntsman Corporation warrants only that its products meet the specifications stated herein. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, HUNTSMAN MAKES NO WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND ANY USER OF PRODUCTS DESCRIBED HEREIN SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE AND ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES. Product(s) described in this publication may be hazardous and/or toxic and require special precautions in handling. For all product(s) described herein, the user should obtain from Huntsman detailed information on hazards and/or toxicity, together with proper shipping, handling, and storage procedures, and should comply with all applicable safety and environmental standards. The behavior, hazards and/or toxicity of the product(s) referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which may not be known to Huntsman. It is the sole responsibility of the user of such product(s) to evaluate the manufacturing circumstances and the final product(s) under actual end-use requirements and to adequately advise and warn future purchasers and users thereof.