

Technical Bulletin

JEFFCOOL[®] E100 INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

GENERIC NAME	Inhibited ethylene glycol
DESCRIPTION	JEFFCOOL [®] E100 is an ethylene glycol-based industrial coolant and heat transfer fluid containing corrosion inhibitors, antifoam and dye. JEFFCOOL [®] E100 should be diluted with water to between 30% and 60% by volume depending on the desired freeze point.
APPLICATIONS	JEFFCOOL [®] E100 can be used in heat transfer applications including line heaters, snow melting systems and runways; as a coolant for ice rinks and air conditioning systems (HVAC); and as a heat transfer agent for solar energy collection systems. The inhibitor package in JEFFCOOL [®] E100 is designed to protect all common metals used in industrial equipment including cast iron, steel, copper and brass up to 300°F and aluminum up to 190°F. JEFFCOOL [®] E100 coolant passes the ASTM D1384 corrosion test per the limits set in ASTM D3306.

For applications where ingestion of the fluid by mammals is a possibility, select the corresponding JEFFCOOL[®] P150 series propylene glycol-based fluid or, for food processing equipment, select the corresponding JEFFCOOL[®] P200 series 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, 50 vol% solution		ASTM D3321
°C	-37 max.	
°F	-34 max.	
pH, 33 vol% solution	9.5 – 10.5	ASTM D1287
Reserve Alkalinity, mL 0.1 N HCl using a 10mL sample	10.5 – 14.0	ASTM D1121
Specific gravity, 60/60°F	1.12 – 1.15	ASTM D1122
Water, wt%	4.0 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)	127 (260)
Boiling point, °C (°F)	198 (388)
Melting/Freezing point, °C (°F)	-21 (-5)
Color	Red
Density, lb/US gal, 60°F	9.42
Viscosity, cSt, 20°C (68°F)	19
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[®] E100 coolant may be stored in unlined carbon steel tanks and drums. If storage of concentrated JEFFCOOL[®] E100 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[®] E100 coolant, see our bulletin on "Storage and Handling of JEFFCOOL[®] Coolants."

AVAILABILITY

JEFFCOOL[®] E100 coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory of JEFFCOOL[®] E100 is available at select locations throughout the United States.

**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, 2013, 2014, 2015 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 in the sales contract. 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. Products may be toxic and require special precautions in handling. For all products described herein, the user should obtain detailed information on 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 products 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 products to evaluate the manufacturing circumstances and the final products under actual end-use requirements and to adequately advise and warn future purchasers and users thereof.