

Technical Bulletin

JEFFCOOL[®] P153 INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

GENERIC NAMES Inhibited propylene glycol

DESCRIPTION JEFFCOOL[®] P153 is a pre-diluted propylene glycol-based industrial coolant and heat transfer fluid containing corrosion inhibitors, antifoam and dye. JEFFCOOL[®] P153 is a 30% by volume mixture of JEFFCOOL[®] P150 and deionized water.

APPLICATIONS JEFFCOOL[®] P153 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. Propylene glycol is generally suitable for applications in which toxicological considerations are critical. The inhibitor package in JEFFCOOL[®] P153 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[®] P153 coolant passes the ASTM D1384 corrosion test per the limits set in ASTM D3306.

For applications where incidental contact with food can occur, such as in food processing equipment, select the corresponding JEFFCOOL[®] P200 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	-12 max.	
°F	+11 max.	
pH, as is	9.5 – 10.5	ASTM D-1287
Reserve Alkalinity, mL 0.1 N HCl using a 30mL sample	10.0 – 14.0	ASTM D-1121
Specific gravity, 60/60°F	1.02 – 1.04	ASTM D-1122
Water, wt%	72 max.	ASTM D-1123

*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)	100 (212)
Color	Red
Density, lb/US gal, 60°F	8.6
Viscosity, cSt, 20°C (68°F)	4
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[®] P153 coolant may be stored in unlined carbon steel tanks and drums. If storage of concentrated JEFFCOOL[®] P153 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[®] P153 coolant, see our bulletin on "Storage and Handling of JEFFCOOL[®] Coolants."

AVAILABILITY

JEFFCOOL[®] P153 coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory of JEFFCOOL[®] P153 is available at select locations throughout the United States.

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