



## Product Information Bulletin

### ***INTERCOOL® OP-100N***

***INTERCOOL® OP-100N***, like ***INTERCOOL® OP-100***, is chemically engineered using organic and inorganic inhibitors for corrosion protection in an ***ethylene glycol*** base and used as an Industrial Heat Transfer Fluid. ***INTERCOOL® OP-100N*** is formulated with the addition of sodium nitrite to provide added corrosion protection to line heaters and contribute to the prevention of cavitation corrosion in high-speed engines. The chemistry employed will effectively protect your industrial equipment whether constructed of single or mixed alloys. The industrial corrosion control inhibitors included have been specially formulated to extend the service life of the coolant. Therefore, you will receive a higher level of reserve alkalinity, superior performance, and less maintenance requirements through re-inhibiting. These attributes improve your bottom line cost.

***INTERCOOL® OP-101*** is added initially and for remediation purposes when required. ***INTERCOOL®*** inhibitors, when added to ***ethylene glycol*** in the prescribed amount will protect such metals as Brass, Copper, Copper alloys, Steel, Cast iron, and Aluminum. ***INTERCOOL®*** inhibitors have successfully completed the 336-hour ASTM D-1384 corrosion test. A certificate of assurance is available upon request

***INTERCOOL® OP-100N*** can be purchased in its concentrated form or preblended with deionized water to meet your specification for boiling, freeze and/or burst protection.





Interstate Chemical Company, Inc.  
2797 Freedland Rd.  
Hermitage, PA 16148

Caterpillar recommends Caterpillar brand coolant in the engines they manufacture. If Caterpillar coolant is not used it is recommend that a quality coolant be used that meets at minimum ASTM D 6210-06 or ATSM D 4985-05 standard specification for Fully-Formulated Glycol Base Engine Coolant for Heavy-Duty Engines.

Interstate Chemical has documented in writing that Their Intercool OP-100N product meets both of these Standards. Therefore this product should be suitable for use in Caterpillar engines.

Victor Lantz  
Walker Engine Power  
Technical Communicator  
EPG, IND.Truck



**INTERSTATE  
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**INTERCOOL® OP-100N 50%**  
**PRODUCT SPECIFICATION SHEET**

**JANUARY 1, 2010**

<b>CHARACTERISTIC</b>	<b>SPECIFICATION</b>	<b>TEST METHOD</b>
Specific Gravity, 60/60 °F	1.076-1.081	ASTM D-369
Reserve Alkalinity (mils.)	10.0 (min.)	ASTM D-1121
pH (diluted)	8.0 - 9.5	pH Meter
Freeze Point, °F	-36° F	Refractive Index
Appearance	Clear, blue liquid	Visual

*Christine M. Delitto*

Analyst  
Quality Control Lab

*F. James Corbett*

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Quality Control Manager

Interstate Chemical Company, Inc. disclaims any liability in connection with the use of the above information, and does not warrant against infringement by reason of this product being used in combination with other materials or in any process.



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## Certificate of Assurance

ASTM D-1384 Corrosion Test on **INTERCOOL® HTF**  
(336 hr. @ 190°F in Glassware with Corrosive Water)

	<u>INITIAL TEST</u>	<u>DUPLICATE</u>	<u>TRIPLICATE</u>	<u>AVERAGE</u>	<u>ASTM Max.</u>
Copper	-2	-3	-4	-3	+/- 10
Solder	-8	-8	-10	-8.6	+/-30
Brass	-3	-2	-2	-2.3	+/-10
Steel	-3	-4	-4	-3.66	+/-10
Cast Iron	-1	-1	-2	-1.3	+/-10
Cast Aluminum	-8	-7	-8	-7.6	+/-30

Interstate Chemical Co., Incorporated certifies that **INTERCOOL® OP-100N** industrial heat transfer fluid meets ASTM D-1384 standards.

*Users of the corrosion test data in glassware should understand its purpose and limitations. This is a screening procedure for evaluating the effects of antifreeze solutions on metal specimens under controlled laboratory conditions. The test method is generally capable of distinguishing between coolants that are definitely deficient from the corrosion standpoint and those that are worthy of further evaluation. Results from this test should not be interpreted as evidence of satisfactory corrosion inhibition for all industrial systems using this fluid because service conditions cannot be simulated adequately.*

