

**PRODUCT  
SPECIFICATION**



**Super Diesel Heavy Duty Long Life Antifreeze  
TYPE RA 292**

Number of revisions: 1

Date of last revision: January 24, 2008

**Technical Information:**

**Physical state :** Liquid

**Appearance:** Viscous, Pink color

**Application:** Long life Antifreeze Heavy Duty Diesel Motors

This product is formulated with the latest organic acid technology and is "precharged" creating a high quality extended life ethylene glycol antifreeze/coolant for heavy duty use. Its special blend of long-lasting inhibitors is designed to protect all engine components, including aluminum, for a minimum of five years, or 600000 km, when is used as directed. By adding Hall-Chem NAOT extender after 600000 km the cooling system will be protect up to 965000 km.

Heavy duty long life coolant /antifreeze exceeds the requirements of ASTM D3306/4985, ASTM D6210, TMC RP329, Caterpillar EC-1 (Section 2.3-4.5inc.), Detroit diesel 7SE298, SAE J1034 and SAE J1942; satisfies both hot surface aluminum protection requirements of ASTM D4340 and Cummins heavy duty low silicate requirements. Compatible with Texaco® and Caterpillar® extended life and other "strawberry-red" NAOT coolants.

**Code RA 292**

**CAS-Nº: N/A**

**WHMIS CLASSIFICATION:  
D2A, D2B**



Typical properties	Test Method	Limit Values	Typical Values
Specific Gravity @60°F	D-1122	1.100-1.12	1.113
Freezing Point : 50% Water solution F° (C°)	D-1177	-34°F (-37°C) Max	34°F (-37°C)
Boiling Point A F° (C°)	D-1120	325°F (163°C) Min	325°F (164°C)
Effect: Automotive Finish	D-1882	No Effect	No Effect
Ash Content, Mass %	D-1119	-	0.5%
pH: 50% in Water	D-1287	8.5 – 10.5	9.5

Reserve Alkalinity, ml	D-1121	Report B	1.5-4.5
Corrosion in Glassware Weight Loss, mg/specimen	D-1384		
Copper		10 Max	0
Solder		30 Max	2
Brass		10 Max	0
Steel		10 Max	0
Cast Iron		10 Max	0
Aluminum		30 Max	0
Simulated Service Weight Loss, mg/specimen	D-2570		
Copper		20 Max	1
Solder		60 Max	2
Brass		20 Max	1
Steel		20 Max	1
Cast Iron		20 Max	1
Aluminum		60 Max	10
Corrosion of Cast Aluminum Alloys at Heat Rejecting Surfaces mg/cm <sup>2</sup> /week	D-4340C	1.0 Max	0.45
Foaming Volume, ml	D-1881	150Max	50ml
Break Time, seconds		5 Max	1.2 sec.
Pitting, Cavitation or Erosion of the Water Pump <sup>c</sup>	D-2809	8 Max	<8

<sup>A</sup> Some precipitate may be observed at the end of the test. This should not be cause for rejection.

<sup>B</sup> Agreed value between supplier and customer.

<sup>C</sup> This test is not required by ASTM D-4985; however, ASTM D-3306 requires it.

#### Packing:

\*Plastic Containers 1100 L and Metal Drums - 205 L \* Plastic Containers of 3.7 L

These data are based on our current knowledge, experience and technical equipment. They do not relieve customers of carrying out their own tests and experiments, due to the great diversity of possible effects in processing and application of our products. They do not imply any legally binding assurances of certain properties and applications. The recipients of our products ought to abide by the existing legislation and regulations as well as possible reserved rights

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