**PURUS® HEAVY DUTY PRE-CHARGED ANTIFREEZE/COOLANT- FUSCHIA**

Manufactured with virgin base products

**DESCRIPTION:** PURUS® Heavy Duty Pre-Charged Antifreeze/Coolant is a premium quality, conventional technology ethylene glycol-based fluid. The product is specially formulated with industry-leading additives to provide optimum performance in heavy duty vehicles requiring supplemental coolant additives (SCAs).

**PERFORMANCE FEATURES:**
- Contains nitrites for superior wet sleeve liner cavitation protection.
- Provides maximum freeze and boil-over protection.
- Designed for heavy duty applications, yet can be used in automotive applications where conventional technology coolants are acceptable.
- Phosphate-free, low silicate formulation.
- Effective, long-term corrosion protection for steel, solder, copper, iron, brass and aluminum.
- High-quality defoamer system, non-harmful to hoses, plastics or gaskets.
- Compatible with all major American brands of conventional coolants, with and without the addition of SCAs.*
- Appropriate for use in on and off-road diesel engines, as well as in stationary engine applications where a conventional pre-charged coolant is required.

**TYPICAL PROPERTIES:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Concentrate</th>
<th>50/50 Freezing Point</th>
<th>50/50 Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycols Content, mass %</td>
<td>GC</td>
<td>96.5</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Bittering Agent</td>
<td>--</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Water Content, mass %</td>
<td>D1123</td>
<td>2</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Corrosion Inhibitor System, mass %</td>
<td>--</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity @ 60ºF</td>
<td>D1122</td>
<td>1.125</td>
<td>1.075</td>
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</tr>
<tr>
<td>Flash Point</td>
<td>D97</td>
<td>240ºF (116ºC)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>D1287</td>
<td>10.8</td>
<td>10.5</td>
<td></td>
</tr>
<tr>
<td>RA</td>
<td>D92</td>
<td>5.6</td>
<td>2.8</td>
<td></td>
</tr>
<tr>
<td>Storage Stability</td>
<td>--</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Effect on Non-Metals</td>
<td>D1882</td>
<td>No Effect</td>
<td>No Effect</td>
<td></td>
</tr>
<tr>
<td>Cavitation Erosion Rating</td>
<td>D2809</td>
<td>8 min</td>
<td>8 min</td>
<td></td>
</tr>
<tr>
<td>Foam Test, ml/sec</td>
<td>D1881</td>
<td>&lt;50/3</td>
<td>&lt;50/3</td>
<td></td>
</tr>
<tr>
<td>Fluid Color</td>
<td></td>
<td>Fuschia</td>
<td>Fuschia</td>
<td></td>
</tr>
<tr>
<td>Coolant/Antifreeze % 50/50 Freeze Point</td>
<td>D1177</td>
<td>-34ºF (-36ºC)</td>
<td>-34ºF (-36ºC)</td>
<td></td>
</tr>
<tr>
<td>Coolant/Antifreeze % 50/50 Boil Point</td>
<td>D1120</td>
<td>226ºF (108ºC)</td>
<td>226ºF (108ºC)</td>
<td></td>
</tr>
<tr>
<td>Ash Content</td>
<td>D1119</td>
<td>&lt;5.0</td>
<td>&lt;2.5</td>
<td></td>
</tr>
<tr>
<td>Chloride (mg/L)</td>
<td>D3634</td>
<td>&lt;25</td>
<td>&lt;25</td>
<td></td>
</tr>
<tr>
<td>Silicon (as SiO3)</td>
<td>D6130</td>
<td>&lt;250</td>
<td>&lt;125</td>
<td></td>
</tr>
<tr>
<td>Nitrate Content (mg/L)</td>
<td>D5827</td>
<td>2550</td>
<td>1250</td>
<td></td>
</tr>
<tr>
<td>Nitrate Content (ppm)</td>
<td>D5827</td>
<td>600</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

*Updated 07/2015

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PURUS® Heavy Duty Pre-Charged Antifreeze/Coolant meets the requirements of:**

- AGCO (Massey Ferguson) M1130A
- ASTM D3306
- ASTM D6210
- Bombardier
- BS 6580:2010
- Buhler Versatile 860550054
- CAT DEAC/ NGEC
- CAT EC-1
- CID-A-52624A
- Chrysler MS-7170
- CNH MAT 3620 (87692740)
- Cummins CES 14603
- Daimler DBL 7700.00
- Daimler DBL 7700.10
- Daimler DBL 7700.20
- DDC 93K217
- EMD MI 1748F
- Ford ESE-M97B18-C
- Ford ESE-M97B44-A
- GM 1825M
- GM 6038M
- GM 1899M
- GET-2594F (MI-09500)
- JCB STD0008
- Jenbacher 1000-201
- John Deere JDM H24A
- John Deere JDM H24B, C
- John Deere JDS-G135
- Liebherr
- Mack GS17004
- MTU 5048
- MWN Deutz TR0199-99-115
- Navistar CEMS B-1 Type I and Type II
- Perkins (CAT)
- SAE J1034
- SAE J1941
- TMC RP 302A
- TMC RP 302B
- TMC RP 303C
- TMC RP 329
- TMC RP 338A
- Volvo Coolant VCS
- Waukesha 4-2429H
- Wisconsin Motors (Continental)

Always consult your vehicle owner’s manual for proper fluid removal and flushing procedures. Typical properties, are not to be construed as specifications.

*SCA levels will need maintaining throughout the life of the engine. Consult your owner’s manual for recommendations.

**Meets performance requirements but may or may not meet certain chemical requirements.