



Advanced Antifreeze Technologies

PENRAY 2798

Penray 2798 is a carboxylate Acid -based inhibitor system. This antifreeze inhibitor package features a silicate-free, phosphate-free formula to provide trouble-free service in newer automobiles and light-duty gasoline-powered trucks. Antifreeze made with virgin glycol and Penray 2798 is compatible with GM Dexcool® brand antifreeze, first introduced during the 1995 model year. It is also compatible with similar “orange” carboxylate inhibited antifreeze brands. Penray 2798 offers the easiest method of manufacturing carboxylate (organic) technology antifreeze or engine coolant. Coolant contains 3.25 vol % 2798, antifreeze concentrate must contain 6.5 vol %.

Store above 75°F (23°C) before use.



BENEFITS

- Extended service formulation
- Easy liquid blending
- One part system
- Compatible with Dexcool and other “orange” coolants
- Silicate-Free
- Phosphate-Free

SPECIFICATIONS

- ASTM D-3306
- ASTM D-4656 Auto – Pre-diluted

Using and maintaining a properly formulated coolant is one of the most important aspects of engine maintenance. 40% of engine breakdowns are a direct result of improper coolant maintenance.

The Penray Companies, Inc.

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Penray 2798 @ 3.25% in 50% Ethylene Glycol
ASTM D-3306 and D-4985 Specifications

PENRAY 2798

| Property | ASTM Test Method | ASTM Specification | Penray 2798 Performance |
|--|---------------------|--|---|
| Specific Gravity @60°F | D-1122 | 1.110 – 1.145 | 1.130 |
| Freezing Point F° (C°) | D-1177 | 50 Vol % in Distilled Water: -34°F (-37°C) Max or Lower | 50 Vol % in Distilled Water: -38.8°F (-39.3°C) |
| Boiling Point ^A F° (C°) @ 100% Boiling Point ^A F° (C°) @ 50% | D-1120 | 325°F (163°C) Min 226°F (107.8°C) Min | 328°F (164.4°C) 226°F (107.8°C) |
| Effect: Automotive Finish | D-1882 | No Effect | No Effect |
| Ash Content, Mass % | D-1119 | 5% Max | 0.29% |
| pH: 50 Vol % in Water | D-1287 | 7.5 – 11.0 | 7.6 |
| Chloride, PPM | D-5827 | 25.0 Max | <2.0 |
| Reserve Alkalinity, ml | D-1121 | N/A | 12.8 |
| Foaming Tendencies | D-1881 | Break: 5 sec Volume: 150 ml | Break: 3.3 sec Volume: 75 ml |
| Corrosion in Glassware Weght Loss, mg/speciman | D-1384 | | |
| Copper | | 10 Max | 2 |
| Solder | | 30 Max | 1 |
| Brass | | 10 Max | 1 |
| Steel | | 10 Max | 0 |
| Cast Iron | | 10 Max | 0 |
| Aluminum | | 30 Max | 0 |
| Simulated Service Weight Loss, mg/speciman | D-2570 | | |
| Copper | | 20 Max | 2 |
| Solder | | 60 Max | 15 |
| Brass | | 20 Max | 5 |
| Steel | | 20 Max | 1 |
| Cast Iron | | 20 Max | 0 |
| Aluminum | | 60 Max | 0 |
| Corrosion of Cast Aluminum Alloys at Heat Rejecting Surfaces mg/cm ² /week | D-4340 ^B | 1.0 Max | 0.175 |
| Cavitation Erosion Rating: Pitting, Cavitation or Erosion of the Water Pump | D-2809 | 8 Min | 8 |

^A Some precipitate may be observed at the end of the test. This should not be cause for rejection.

^B This test is not required by ASTM D-4985; however, ASTM D-3306 requires it.

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