

Antifreeze

Product data sheet



MEG Based Inorganic additive Coolant Concentrate

APPLICATIONS	FEAURES	SPECIFICATIONS						
<p>Antifreeze is a concentrated product and should be diluted for use with good quality water. doc recommends that for optimum performance distilled or deionized water is used. The freeze protection afforded by the various dilutions is detailed in the table below:</p> <table border="1"> <thead> <tr> <th>% Antifreeze</th> <th>Freeze Protection °C</th> </tr> </thead> <tbody> <tr> <td>40%</td> <td>-26°C</td> </tr> <tr> <td>50%</td> <td>-35°C</td> </tr> </tbody> </table>	% Antifreeze	Freeze Protection °C	40%	-26°C	50%	-35°C	<p>Antifreeze is an engine coolant concentrate (antifreeze) based on mono ethylene glycol, containing no nitrites, amines or phosphates (NAP free). This product is suitable for both petrol and diesel engines, carefully chosen additives give the following properties in aqueous mixtures:</p> <ol style="list-style-type: none"> 1. Thermal characteristics that permit effective engine cooling without boiling. 2. Anticorrosion protection of all metals and alloys used in the cooling system of modern vehicles. 3. Protection against frost, depending on the concentration chosen. 4. Compatibility with rubber and plastics used in the cooling system. 5. Excellent antifoaming characteristics. 6. Meets most International and European Standards. 	<p>Antifreeze complies with the following quality standards:</p> <p>AFNOR NF R15-601 (France) AS 2108 (Australia) ASTM D3306 (USA) BS 6580 : 2010 (UK) CUNA NC 956-16 (Italy) ONORM V 5123 (Austria)</p> <p>Antifreeze successfully passes the FVV Heft R443 tests (Germany)</p> <p>SAE J 1034 (USA) UNE 26-361 (Spain)</p> <p>These specifications as well as many years of practical experience in the field have demonstrated that Antifreeze engine coolant concentrate is suitable for use with all type of cars currently manufactured in Europe.</p>
% Antifreeze	Freeze Protection °C							
40%	-26°C							
50%	-35°C							

PHYSICAL PROPERTIES

Test		Unit	Average results
Appearance			Blue
Density at 20 °C	ASTM D 4052	g/cm ³	1.125
pH (50% vol in Water)	ASTM D 1287		8.9
Freezing Point (50% vol in Water)	ASTM D 1177	°C	-35
Boiling Point	ASTM D 1120	°C	169
Reserve Alkalinity (ml HCl N/10)	ASTM D 1121	ml	21.5
Water Content	ASTM D 1123	% wt	3.8
Foaming characteristics at 88 °C			
- Height	ASTM D 1881	ml	35
- Breaktime		secs	2

These are typical properties and do not constitute a specification, for specification limits please refer to the product specification.