



*Kimya Resin Arak Chemical Industrial Company*  
*Issued Sales Specification*

**Name of Product**  
Antifreeze

**Revision Date**  
13-Dec-2022

**Specification of Antifreeze**

PROPERTIES	UNIT	METHOD	RESULT
Density at 20°C	gr/cm <sup>3</sup>	ASTM D1298	1.110-1.145
Water Content	Wt%	ASTM E203	Max 5
pH (50 vol%)	—	ASTM D1287	7.5-11
Boiling Point (50 vol%)	°C	ASTM D1120	Min 108
Freezing Point (50 vol%)	°C	ASTM D1177	Min 36.5
Ash Content	Wt%	ASTM D1119	Max 5
<b>Corrosion Rate</b>	mgr.	ASTM D1384	Max ±10
Copper			Max ±10
Brass			Max ±10
Solder			Max ±30
Steel			Max ±10
Cast Iron			Max ±10
Aluminum			Max ±30
Foam Content	mlit.	ASTM D1881	Max 150
Foam disappearance time	second	ASTM D1881	Max 5
Appearance	-	Visual Inspection	Clear & Bright

**APPLICATION:**

Coolant, which is commonly called antifreeze, is a mixture of ethylene or propylene glycol and water, usually in a 50/50 ratio. Coolant fluid is a special fluid with additives, because it needs to remain liquid at very low temperatures (below 0°C), but must not evaporate at very high-temperatures (above 100°C). Coolant for cars also needs to have anti-corrosive properties in order to protect the metallic surfaces of the engine's various parts. Coolant (or antifreeze) protects your engine from freezing while defending components against corrosion, as well as plays a critical role in sustaining overall engine heat balance by removing heat.

**Safety, Handling and Storage:**

Full information of the Safety, Handling and Storage of antifreeze is available on its MSDS.

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