

## **HP Koolgard**

HP Koolgard is an engine coolant with Ethylene glycol base for use in radiators. It is a superior quality radiator coolant with antifreeze and corrosion inhibition properties. HP Koolgard Meets ASTM 3306 & JIS K 2234 – 1987. HP Koolgard is recommended for use in cooling system of all Diesel Vehicles, Passenger cars, Jeeps, Vans, Tempos, Tractors etc.

HP Koolgard is 100% concentrated product. It should be used in dilution ratio of 20% to 50% with water or as per vehicle manufactures' recommendation.

Features:

- Easy miscibility with water
- Effective cooling
- Good Chemical Stability
- High Boiling Point & Low Freezing point
- Protect radiator against rust & corrosion

No.	Property		Value
1	Appearance		Bright & Clear
2	Colour		Green
3	Specific Gravity @20/20°C, Min.		1.115
4	Freezing temp. °C, Max.		
	50 Vol.% Water solution, Max.		- 34
	30 Vol.% Water solution, Max.		- 14.5
5	pH of 30 Vol.% water solution		7.0 – 11
6	Reserve alkalinity, Original Liquor		8.5 (avg.)
7	Boiling Point, °C, Original Liquor, Min.		155
8	Foaming Property, ml, 30 Vol% Aqueous Solution, Max.		4.0
9	Water content, %wt., original liquor, Max.		5.0
10	Metal corrosion property, change of test piece mass in mg/cm <sup>2</sup> 30 Vol.% solution with JIS corrosion water 336± 2°C hrs. at 88± 2°C, Max.		
	Aluminum Casting		±0.30
	Cast Iron		±0.30
	Steel		±0.15
	Brass		±0.15
	Solder		±0.30
	Copper		±0.15
11	Appearance after corrosion test	There shall be no visually noticeable corrosion on the test pieces excluding the part in contact with the spacer. But change in colour is permissible.	
12	Foaming during the test	No foam flooding out from the cooler	
13	Properties of the solution after corrosion / ageing test		
	pH value		7.0 – 11.0
	Change of pH		± 1.0
	Change of reserved alkalinity		To be reported
	Liquid phase	No significant change of colour. No significant change of liquid such as generation of gel	
	Amount of precipitate, Vo.%, Max.		0.5