



Research & Development

# PRODUCT DATA SHEET

## AXCL POLAR ICE

### Coolant & Anti-Freeze

#### Description

AXCL Polar Ice Coolant is long life antifreeze recommended for use in liquid cooling systems of automotive and industrial gasoline and diesel engines. It has a low silicate and NAP free (Nitrite, Amine, Phosphate) hybrid technology. They are available in various concentrations ready for use. The higher boiling points of AXCL Polar Ice Coolant are beneficial in hot weather and its low freezing point performs well in cold weather and at high altitudes. It protects all engine cooling system metals, including aluminum from corrosion.

#### Performance Level

ASTM D3306/D4985/D6210-10/D7583, AS/NZS 2108:2004 Type A • Chrysler MS9769, Cummins Bulletin 3666132, Caterpillar EC-1 • DDC 7SE 298/93K217, Freightliner, GM 1825M/1899M/Heavy Truck • JIS K2234, MAN 324, MTU MTL 5048, MB DBL 7700.00 • Saab/Scania 6901, Renault Type D, VW TL 774C

#### Benefits & Advantages

- High boiling point gives better cooling performance in high temperature.
- Excellent anti-foam properties.
- Withstands freezing at low temperatures.
- Protects the radiator against rust & corrosion.
- Protection against excessive evaporation.
- Provides year-round cooling and anti-freeze properties.

#### Application

- Protects cooling systems of gasoline and diesel engines against rust in all seasons.
- They provide ideal cooling, effective protection against corrosion and scale deposit formation in the cooling systems.
- Longer radiator life and lower maintenance cost

#### Specification & Parameter

#	Test	Method	Result			
			33%	40%	50%	100%
1.	Concentration	-	33%	40%	50%	100%
2.	Color	Visual	Fluorescent Green/Blue	Fluorescent Green/Blue	Fluorescent Green	Fluorescent Green
3.	Appearance	Visual	B&C	B&C	B&C	B&C
4.	Density @ 15 °C	ASTM D 1298	1.05	1.05	1.072	1.11
5.	pH	ASTM D 1287	7.6	7.6	7.9	7.9
6.	Reserve Alkalinity	ASTM D 1121	5.6	8.8	12.0	18.0
7.	Freezing Protection	ASTM D 1177	- 15	-24	- 36	-36
8.	<i>Mono ethylene glycol , Concentration</i>	<i>DISTILLATION</i>	33	40	50	99.8
9.	Chloride	ASTM D 3634	< 20	< 20	< 20	< 20

*\*Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.*



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AXCL Polar Ice Coolant

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