



S-OIL SEVEN SUPER COOLANT LL

Product Description

S-OIL 7 SUPER COOLANT LL is an organic acid-based coolant with a service interval of 5 years or 200,000 km. It is a long-life, all-season antifreeze made from high-purity raw materials, offering superior anti-corrosion and cooling performance.

This coolant is free from borax, silicate, phosphate, amine, and nitrite (5-Non) and remains effective even in hard water. It delivers exceptional corrosion protection for aluminum and cast iron engines while also safeguarding metals such as aluminum, cast iron, steel, solder, brass, and copper against corrosion.

Applications

- Automotive cooling systems
- Production line of car manufacturers (KG Mobility)
- Industrial cooling systems and vessel refrigeration systems

Features and Potential Benefits

- Outstanding protection for hot surface aluminum
- Superior protection at high operating temperatures
- Improves water pump lifespan by reducing seal wear
- Excellent long-term corrosion protection for metals in the cooling system

Performance Level

- Recommended for use where the following specifications are called for :
SNS-N-761, GM 6277M, KS M 2142, GB 29743, ASTM D 3306, JIS K 2234

Typical Properties

Test Items	Method	Requirements	Unit	Properties
pH 33vol% in distilled water	ASTM D 1287	7.0 ~ 11.0	-	8.3
Reserve Alkalinity	ASTM D 1121	-	mL	11.8
Specific gravity at 20°C	ASTM D 1122	-	-	1.131
Water content	ASTM D 1123	5 max.	wt%	4.3
Boiling point	ASTM D 1120	163 min.	°C	168
Volume	ASTM D 1881	150 max.	mL	35
Forming Break time		5 max.	Sec.	2.5
Staining characteristics	ASTM D 1882	No effect	-	No effect
Ash content	ASTM D 1119	5 max.	wt%	4.0
Flash point	ASTM E 502	-	°C	124
Refractive index	ASTM D 1218	-	-	1.430

Freezing point, 50vol% in DI water	ASTM D1177	-36.4 max.	°C	-37
Color	Visual	-	-	RED
Test Items	Method	Requirements	Unit	Properties
Content	Phosphate	ICP-AES	-	None
	Silicate	ICP-AES	-	None
	Nitrite	Ion-chromatography	-	None

Anti-Corrosion Performance

Test Items	Method	Requirements	Unit	Properties
Glassware Corrosion Test	ASTM D 1384	Copper	± 10	+1.1
		Solder	± 30	-3.1
		Brass	± 10	+0.9
		Steel	± 10	-0.3
		Cast Iron	± 10	-1.5
		Aluminum	± 30	-2.3
Simulated Service Test	ASTM D 2570	Copper	± 20	3.3
		Solder	± 60	-5.9
		Brass	± 20	+1.5
		Steel	± 20	+2.4
		Cast Iron	± 20	-3.3
		Aluminum	± 60	-3.9
Cavitation Erosion Corrosion Test	ASTM D 2809	8 min.	-	9
Heat Transfer Corrosion Test	ASTM D 4340	±1.0	mg/specimen	-0.2

Storage

- Store in a closed container in a dry, well-ventilated area at temperatures below 25°C.
- Shelf life: three years. Do not expose to direct sunlight.
- Keep out of reach of children and animals.

Disposal

When disposing of used coolant, it should be sent to an authorized or designated facility or business. Unauthorized disposal, such as discharging it into sewage or soil, is prohibited.

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This product used recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet is obtainable via your commercial adviser.