SPINTA G12 CONCENTRATE

Product Code: SP-CS-G12-CONC

Concentrated Protective Antifreeze Coolant for Aluminium Circuits

PRODUCT DESCRIPTION

SPINTA G12 CONCENTRATE is a concentrated ethylene-glycol-based antifreeze coolant developed for cooling circuits, especially those containing aluminium. Its silicate-, nitrite-, amine- and phosphate-free formulation helps prevent deposits and corrosion. It must be diluted only with demineralized water according to the required protection level.

APPLICATIONS & BENEFITS

NAP-Free Technology Free from nitrites, amines and phosphates; silicate-free formulation helps reduce deposit formation.
Corrosion Protection Helps protect aluminium and other cooling-system components against corrosion and scale.
Long-Life Protection Source formulation provides up to five years of total protection under appropriate operating conditions.

KEY PERFORMANCE BENEFITS

Adjustable Protection Concentration can be selected according to required freezing and boiling protection.
Heat Transfer Supports efficient thermal exchange in internal-combustion-engine cooling systems.
Hard-Water Stability Source TDS reports complete water miscibility and no precipitation in hard water.

SPECIFICATIONS & PERFORMANCE LEVELS

Meets or exceeds the following specifications and performance levels; suitable-for-use claims as indicated:

- ASTM D 3306
- ASTM D 4985
- BS 6580 (GB)
- FVV Heft R 443 (D)
- AFNOR R 15/601 (F)
- SAE J 1034
- JIS K 2234 (J)
- KSM 2142 (K)
- NATO S 759
- CUNA NC 956-16 (I)
- EMPA (CH)
- UNE 26361-88 (E)
- E/L 1415c (MIL Italy)
- VW/Audi/Seat/Skoda TL-774 D/F (G12/G12+)

Recommendation: Dilute only with demineralized water. Select the concentration required by the vehicle manufacturer and the expected ambient-temperature range.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Property	Test Method	Typical Value
Nature	-	Ethylene glycol + inhibitors
Appearance	Visual	Liquid
Color	Visual	Purplish
Density @ 20°C, kg/dm³	ASTM D 1122	1.115
Boiling Point, °C	ASTM D 1120	170
Flash Point, °C	ISO 2592	111
pH [50% diluted]	ASTM D 1287	min. 7.5
Corrosion in Glass	ASTM D 1384	Exceeds
Alkaline Reserve, ml HCl 0.1N	ASTM D 1121	15.0
Water Content	DIN 51777	max. 3.5%
Miscibility with Water	-	Complete
Stability with Hard Water	-	Not precipitate
Dilution 33% product / 67% water	-	Freezing -18°C / Boiling +104°C
Dilution 50% / 50%	-	Freezing -38°C / Boiling +108°C
Dilution 60% / 40%	-	Freezing -48°C / Boiling +111°C

Note: The values shown above are typical for normal production and may vary within normal manufacturing tolerances. They do not constitute a product specification or contractual limit.

STORAGE, HEALTH & ENVIRONMENT

STORAGE

Store under cover whenever possible. If outdoor storage cannot be avoided, containers should be protected from rain and water infiltration. Avoid temperatures above 60°C, direct sunlight and freezing conditions.

HEALTH & SAFETY

When properly used and handled in accordance with standard personal hygiene practices, the product is not expected to present adverse health effects under normal conditions of use. Refer to the corresponding SPINTA Safety Data Sheet (SDS) for detailed precautions and first-aid information.

ENVIRONMENT

Do not discharge new or used product into drains, sewage systems, soil or watercourses. Used product must be collected and delivered to an authorized collection or disposal facility in accordance with applicable regulations.

ADDITIONAL INFORMATION

Safety Data Sheet (SDS): The corresponding SPINTA Safety Data Sheet is available separately and should be consulted before handling or using the product.
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