SPINTA PROPYLENE GLYCOL CONCENTRATE

Product Code: SP-CS-PG-CONC

Propylene Glycol Concentrated Antifreeze Coolant

PRODUCT DESCRIPTION

SPINTA PROPYLENE GLYCOL CONCENTRATE is a permanent concentrated antifreeze based on propylene glycol. It is intended for cooling circuits, solar thermal systems and applications where ecological, food-related or pharmaceutical considerations are important. The formulation is free from amines, nitrites and phosphates and must be diluted only with demineralized water.

APPLICATIONS & BENEFITS

Propylene Glycol Base Suitable where propylene glycol is preferred for environmental or application considerations.
Cooling-System Protection Helps reduce corrosion, deposits and premature component damage.
Long-Life Performance Source formulation provides three years of total protection under appropriate service conditions.

KEY PERFORMANCE BENEFITS

Sensitive Applications Developed for solar thermal, food-production and pharmaceutical refrigeration circuits where appropriate.
Biodegradability Source TDS reports propylene-glycol biodegradability above 60% and BOD/COD = 0.45.
Important Limitation Not suitable for applications involving direct contact between the antifreeze and food products.

SPECIFICATIONS & PERFORMANCE LEVELS

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

- Biodegradable (BOD/COD = 0.45)
- BS 6580 (GB)
- FVV Heft R 443 (D)
- EMPA (CH)
- AFNOR R 15/601 (F)
- ASTM D 3306
- ASTM D 4985
- E/L 1415c (MIL Italy)
- SAE J 1034
- JIS K 2234 (J)
- Volvo Reg. N° 260
- KSM 2142 (K)
- NATO S 759
- GM US 6277 M
- CUNA NC 956-16 (I)
- UNE 26361-88 (E)
- Mercedes DBL 7700
- Ford WSS-M97B44-C
- Ford ESD M97 B49-A
- MAN 324 Type NF
- Chrysler MS 9176
- Opel GM QL 130100
- BMW N 600 69.0
- MB 325.2
- MB 325.0
- Porsche/VW/Audi/Seat/Skoda TL-774 C
- Iveco 18-1830
- FIAT
- B.O.D. 64% in 5 days

Recommendation: Dilute only with demineralized water. Verify suitability for the specific cooling, solar-thermal, food-production or pharmaceutical installation. Do not use for direct food contact.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Property	Test Method	Typical Value
Nature	-	Propylene glycol + inhibitors
Appearance	Visual	Liquid
Color	Visual	Colorless
Density @ 20°C, kg/dm³	ASTM D 1122	1.050
Boiling Point, °C	ASTM D 1120	180
Flash Point, °C	ISO 2592	115
pH	ASTM D 1287	8.0 - 9.0
Alkaline Reserve, ml HCl 0.1N	ASTM D 1121	13.0
Water Content	DIN 51777	max. 3.5%
Miscibility with Water	-	Complete
Dilution 20% product / 80% water	-	Freezing -8°C / Boiling 101°C
Dilution 30% / 70%	-	Freezing -14°C / Boiling 103°C
Dilution 40% / 60%	-	Freezing -22°C / Boiling 103°C
Dilution 50% / 50%	-	Freezing -33°C / Boiling 104°C
Dilution 60% / 40%	-	Freezing -48°C / Boiling 106°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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