

Typical chemical and physical properties

Coolant SiF-8SCNM is a corrosion inhibitor for Heavy Duty Engine Coolant, with a long life protection of all metals of the engine cooling system and is free of borates, phosphates, silicates, amines and nitrates,

Composition: aqueous solution of organic acids salts with nitrite and molybdate.

Appearance	liquid
Colour	pale yellow
Density (20 °C)	1.125 g/cm ³
Solubility in water	complete
Freezing point	- 10 °C
Storage stability	12 month

This information is intended as a guideline only. For specifications please consult the Certificate of Analyses.

Applications and typical treat level recommended

The requirement of ASTM D 6210 or ASTM D 4985 are fully met by adding 8% w/w of Coolant SiF-8SCNM to MEG or MPG.

Add Coolant SiF-8SCNM to the MEG and homogenize for 30 minutes.

Benefits

International, National and Military Standards met by Engine Coolant based on Coolant SiF-8SCNM (Partial List):

BS 6580 (UK)	FVV Heft R 443 (D)	Afnor R 15/601 (1) (F)
SAE J 1034 (1)	JIS K 2234 (1) (J)	KSM 2142 (K)
CUNA NC 956-16 (I)	UNE 26361-88 (E)	EMPA (CH)
ASTM D 6210 and 6211	NATO S 759	E/L 1415c (MIL Italy)

OEM Specifications met by Engine Coolant based on Coolant SiF-8SCNM:

CAT EC-1 – Navistar B1 Type III – Cummins CES 14603 – John Deere HD24 – MAN 324 – Mercedes DBL 325 – Detroit Diesel / SE298 – Land Rover C.S. – GM 1825/1899 H.T. – MTU 5048 – Volvo Saab Scania 6901 – Kenworth R 026-170-97 Mack 14GS7009 – Freighliner 48-22880 – New Holland WSN-M97B18-D – Paccar C.S. – Peterbilt 8502.002 – IVECO 18-1830

(1) Except reserve alkalinity – (C.W.) = coolant water

ADDAPT[®] Coolant SiF-8SCNM

Safety and Handling Please read Material Safety Data Sheet (MSDS) before handling.

Product Specification This information is available on request through our local representative.

Packaging This information is available on request through our local representative.

Quality Policy The objective of our quality policy is the continuous fulfillment of the internal and external requirements agreed upon with our partners with regards to everybody's performance.

The Quality System of ADDAPT[®] Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001: 2015.

Liabilities *All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations, buyer or user remains responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility thereof. Buyer has to ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with, and subject to, our general conditions of sale and supply.*

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ADDAPT[®] Coolant SiF-8SCNM

Typical characteristics of Engine Coolant manufactured with Coolant SiF-8SCNM

CHARACTERISTICS	Coolant SiF-8SCNM 8% MEG 92%	ASTM D 6210 LIMITS
Appearance	Clear	***
Water, mass %	3,7	5 max.
Reserve alkalinity	5,7	***
PH (aqueous solution 50%)	8,2	7,5 – 11,0
Density 15/15 °C	1,122	1,110 – 1,145
Hard water resistance	Clear	***

ASTM D 1384 – Corrosion Test for Engine Coolant in Glassware

METALS	Coolant SiF-8SCNM 8% MEG 92%	ASTM D 6210 LIMITS
	Weight loss – mg/specimen	Weight loss – mg/specimen
Copper	0,8	10 max.
Solder	1,4	30 max.
Brass	1,6	10 max.
Steel	1,1	10 max.
Cast Iron	1,9	10 max.
Aluminium	1,3	30 max.

ASTM D 4340 – Corrosion of Cast Aluminium Alloys in Engine Coolants under Heat Rejecting Conditions

METALS	Coolant SiF-8SCNM 8% MEG 92%	ASTM D6210 LIMITS
	Weight loss – mg/cm ² / week	Weight loss – mg/cm ² / week
Aluminium	0,5	1,0 max.

ADDAPT[®] Coolant SiF-8SCNM

ASTM D 2570 – Simulated Service Corrosion Testing of Engine Coolants

METALS	Coolant SiF-8SCNM 8% MEG 92% Weight loss – mg/specimen	ASTM D 6210 LIMITS Weight loss – mg/specimen
Copper	1,8	20 max.
Solder	3,2	60 max.
Brass	1,6	20 max.
Steel	1,9	20 max.
Cast Iron	0,7	20 max.
Aluminium	4,6	60 max.

ASTM D 2809 – Cavitation Corrosion and Erosion Characteristics of Aluminium Pumps with Engine Coolants

METALS	Coolant SiF-8SCNM 8% MEG 92% Visual Rating	ASTM D 3306 LIMITS Visual Rating
Aluminium	10	8 min.