

### Typical chemical and physical properties

Coolant SiF-8SC is a corrosion inhibitor for high performance Engine Coolant, free of silicates, amines, phosphates, nitrites and nitrates

Composition: aqueous solution of organic acids salts.

Appearance	liquid
Colour	pale yellow
Density (20 °C)	1.125 g/cm <sup>3</sup>
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 3306 or ASTM D 4985 are fully met by adding 8% w/w of Coolant SiF-8SC to MEG or MPG.

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

### Benefits

#### International, National and Military Standards met by Engine Coolant based on Coolant SiF-8SC:

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 3306 and 4985	NATO S 759	E/L 1415c (MIL Italy)

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

Porsche/VW/Audi/Seat/Skoda TL 774 D (2) \* Mercedes MB 325.3 \* Ford ESE M97B49-A \* CUMMINS 85T8-2 (1) \* Man N. Man 248 and 324 \* Wartsilia 32-9011 (C.W.) \* Pegaso GM US 6277 M \* Renault 41-01-001 \* Ford WSS-M97B44-D \* Chrysler MS 9176 \* CUMMINS 90T8-4 \* Mack 014GS17004 \* MAN B&W D 36 5600 \* GM 1899 M (1) \* Navistar B-1, Type III \* VOLVO (Reg. N° 260) \* FORD ESD M97 B49-A \* OPEL GM QL 130100 \* Leyland Trucks LTS 22 AF 10 \* John Deere H 24 B1 and C1 \* Deutz/MWN 0199-2091 2 Auflage (C.W.)

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

# ADDAPT<sup>®</sup> Coolant SiF-8SC

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<b>Safety and Handling</b>	Please read Material Safety Data Sheet (MSDS) before handling.
<b>Product Specification</b>	This information is available on request through our local representative.
<b>Packaging</b>	This information is available on request through our local representative.

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**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<sup>®</sup> Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001:2015.

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**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.*

ADDAPT Chemicals BV  
Speltdijk 1  
NL-5704 RJ Helmond  
The Netherlands  
Tel: + 31 - 492 - 59 - 75 - 75  
Fax: + 31 - 492 - 55 - 29 - 55  
E-mail: [info@addapt-chem.com](mailto:info@addapt-chem.com)  
Home page: <http://www.addapt-chem.com>

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# ADDAPT® Coolant SiF-8SC

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

CHARACTERISTICS	Coolant SiF-8SC MEG	8% 92%	ASTM D 3306 LIMITS
Appearance	Clear		***
Water, mass %	3,8		5 max.
Reserve alkalinity	Min. 4		***
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-8SC MEG	8% 92%	ASTM D 3306 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 1384 – Supplemental Corrosion Test on Light-Weight Metal Specimen

METALS	Coolant SiF-8SC MEG	8% 92%	VW TL 774 Type D/F Limits
	Weight loss – g/m <sup>2</sup>		Weight loss – g/m <sup>2</sup>
AlSi12	0,5		2 max.
AlMn	0,7		2 max.
AlSi10Mg(Cu) for V8 engines	0,5		2 max.

# ADDAPT® Coolant SiF-8SC

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

METALS	Coolant SiF-8SC 8% MEG 92%	VW TL 774 Type D/F Limits
	Weight loss – mg/cm <sup>2</sup> / week	Weight loss – mg/cm <sup>2</sup> / week
Aluminium	0,5	1,0 max.

## ASTM D 2570 – Simulated Service Corrosion Testing of Engine Coolants

METALS	Coolant SiF-8SC 8% MEG 92%	ASTM D 3306 LIMITS
	Weight loss – mg/specimen	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-8SC 8% MEG 92%	ASTM D 3306 LIMITS
	Visual Rating	Visual Rating
Aluminium	9	8 min.