

STRUB Antifreeze XLC colorless

Long-term frost protection - OAT technology

Art.-No. 30527

Base

STRUB Antifreeze XLC Colorless is a radiator corrosion and frost protection based on ethylene glycol.

Description

STRUB Antifreeze XLC Colorless ensures maintenance-free frost and corrosion protection for the engine for its entire service life. The patented silicate- and phosphate-free additive technology enables with the antifreeze a long-term protection for all materials used on the engine, especially for aluminum and iron alloys. It is recommended to change the coolant every 5 years or if necessary when the service life mentioned below is reached. STRUB Antifreeze XLC Colorless can be used without restrictions in engines made of cast iron, aluminum or a combination of both metals and in cooling systems made of aluminum, copper alloys, thermosets and elastomers. Antifreeze with water ensures reliable long-term corrosion protection. The concentration of Antifreeze XLC Colorless should be at least 33 % by volume.

Features and advantages

- Patented OAT technology provides safe protection against all types of corrosion
- safe cavitation protection in modern aluminum engines at high temperature guaranteed
- long operating times due to synergistic effect of additives:
- Commercial vehicle and bus engines 650'000 km (8000h)
- PW engines 250'000 km (2000h)
- Stationary engines 6 years or 32'000h
- improved stability in hard water due to absence of silicates and phosphates
- no deposits
- good compatibility with seals, hoses, plastics and rubber
- environmentally friendly

Technical data

	STRUB Antifreeze XLC Colorless	ASTM 3306 - Requirements	Methods
Color	colorless		
Specific gravity 20°C	1.113		ASTM D1122
Boiling point	180°C	> 163°C	ASTM D1120
Reserve alkalinity (pH 5.5)	6,2	report	ASTM D1121
Flash point	> 110°C		
pH at 50 % dilution	8.6	7.5 to 11.0	ASTM D1287

Application quantity

Antifreeze	Concentrate	Water
- 18°C	33 vol.%	67 vol.%
- 38°C	50 vol.%	50 vol.%
- 45°C	55 vol.%	45 vol.%

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Specifications and approvals				Antifreeze XLC is approved by the following engine manufacturers:			
OEM Group	OEM	Specifications	Color-Code				
ADE	ADE						
AGCO	Fendt						
AGCO	Valtra						
Aston Martin	Aston Martin						
BAIC Group	Foton	Q-FPT 2313005-2013					
Behr	Behr						
Caterpillar	MAK	A4.05.09.01					
Caterpillar	MWM	0199-99-2091/11					
Caterpillar	Perkins						
Claas	Claas						
Cummins	Cummins	IS series u N14					
Cummins	Cummins	CES 14439, CES 14603					
Daimler AG	Mercedes-Benz	325.3	OF02/RL04/RL02				
Daimler AG	Detroit	DFS93K217					
Deutz	Deutz	DQC CB-14					
DRB-HICOM	Proton						
Fiat	Case New Holland	MAT3624					
Ford	Ford	WSS-M97B44-D	OF02				
General Electric Company	Jenbacher	TA 1000-0201					
General Electric Company	Waukesha						
General Motors	Chevrolet						
General Motors	Opel - GM	GMW 3420	OF07				
General Motors	Saab	B 040 1065					
General Motors	Saturn						
General Motors	Vauxhall	GME L1301	BD04				
General Motors	Vauxhall	GM 6277M (+B040 1065)	OF07				
Great Wall Motor Co Ltd.	Great Wall		OF02				
Hitachi	Hitachi						
Isuzu	Isuzu						
Irisbus	Karos						
John Deere	John Deere	JDM H5					
Kobelco	Kobelco						
Komatsu	Komatsu	07.892 (2009)					
Liebherr	Liebherr	MD1-36-130					
Mazda	Mazda	MEZ MN 121 D					
MG-Motors	Rover						
Mitsubishi Heavy Industry	Mitsubishi MHI						
Paccar	DAF	74002					
Paccar	Leyland Trucks	DW 03 24-5403	OF02				
Renault-Nissan	Renault RNUR	41-01-001/--S Type D	YF06				
Rolls Royce Power Systems AG	MTU	MTL 5048					
Rolls Royce Power Systems AG	Bergen Engines	2.13.01					
Scania Group	Scania	TB 1451					
Suzuki	Santana Motors		OF02				
Tata Motors	Jaguar	CMR 8229					
Tata Motors	Jaguar	STJLR 651.5003	OF02				
Tata Motors	Land-Rover						
Tata Motors	Land-Rover	STJLR 651.5003					
Tedom	Tedom						
Thermo King	Thermo King						
Volvo AB	Mack	014 GS 17009					
Volvo AB	Renault Trucks	41-01-001/- -S Type D	YF06				
Volvo AB	Volvo Penta						
Volvo AB	Volvo Construction						
Volvo AB	Volvo Trucks	VCS					
VW	Audi	TL-774 D = G 12	RL02 (OF02)				
VW	Audi	TL-774 F = G 12+	RL04				
VW	MAN	324 Typ SNF					
VW	MAN B&W AG	D36 5600					
VW	MAN B&W A/S	(Denmark)					
VW	Seat	TL-774 D = G 12	RL02 (OF02)				
VW	Seat	TL-774 F = G 12+	RL04				
VW	Semt Pielstick						
VW	Skoda	TL-774 D = G 12	RL02 (OF02)				
VW	Skoda	TL-774 F = G 12+	RL04				
VW	Skoda	61-0-0257					
VW	Volkswagen	TL-774 D = G 12	RL02 (OF02)				
VW	Volkswagen	TL-774 F = G 12+	RL04				
Wärtsilä	SACM Diesel	DLP 799861					
Wärtsilä	Wärtsilä	32-9011	CL00				
Yanmar	Yanmar						

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STRUB Antifreeze XLC meets and exceeds the following requirements: Standards & Specifications			
BRB ASTM Standards British Standards CuNA Standards Italy CuNA Standards Italy French Standards FW Standards Germany Japanese Standards Korean Standards NATO Standards Önor	BRB 637 ASTM D3306 ASTM D4656 ASTM D4985 ASTM D 6210 BS 6580 NC 956-16 NC 956-18 NFR 15-601 FW Heft R443 JASO M325 KSM 2142 NATO S-759 Önorm V5123	MIL Standards MIL Belgium MIL Standards MIL France MIL Standards MIL Italy MIL Standards MIL Sweden SAE Standards UNE Standards	BT-PS-606 A DCSEA 615/C E/L-1415b FSD 8704 SAE J1034 UNE 26-361-88/1

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