

swd PERMACOOL EXTRA

Antifreeze Silicate-inhibited

Description and Application

swd PERMACOOL EXTRA is an antifreeze based on ethylenglycole. It is free of amines, nitrites and phosphates. The special inhibitor-package protects outstandingly the engine and the cooling circuit against frost, rust and excessive heat. It is also applicable for light metal motors.

swd PERMACOOL EXTRA is an antifreeze concentrate which only may be used water-mixed. It is miscible with tap water. In order to assure sufficient corrosion protection a minimum amount of antifreeze concentrate in tap water should not fall below a value of 35%, which especially should be regarded for the use in summer.

It is recommended to renew the coolant at least after 5 years usage.

If the motor manufacturer has specified the use of silicate-free product the according user manual has to be regarded (VW, Audi, Seat, Skoda, Ford, GM/Opel from 1997).

Mixing figure :	protection down to	-10°C	-19°C	-28°C	-40°C
PERMACOOL EXTRA	% vol	20	30	40	50
Tap water	% vol	80	70	60	50

Qualification

swd PERMACOOL EXTRA meets the technical specifications of following manufacturers : BMW, Fiat, Ford, General Motors, Mercedes-Benz, Peugeot.

Furthermore it meets following standards :

- ◆ ASTM D3306
- ◆ BS 6580
- ◆ NATO S 759
- ◆ ASTM D4985
- ◆ FFV Heft R443
- ◆ CUNA NC 956-16
- ◆ SAE J 1034
- ◆ AFNOR NF R15-601 *
- ◆ JIS K 2234 *

* excepted reserve alkalinity

Technical Properties

swd PERMACOOL EXTRA	unit	value
Density at 20°C	kg/m ³	1122
Colour		blue
Reserve alkalinity	ml 0,1n HCl	min. 20
Flash Point	°C	>120
pH (35%)		8,2
Boiling Point	°C	>165

Article-Number :	29122
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Specification variations in these characteristics may occur.
The instructions of manufacturer must be regarded.
Further informations to be available by MSDS.

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