

Page 1/2

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Long Life Corrosion Inhibitor Concentrate

FUNCTION

ASCOTRAN®-RCX is a water-based, ultra high performance corrosion inhibitor concentrate, designed to prepare high quality engine coolant/antifreeze concentrates through the addition of monoethylene or propylene glycol. This additive package is based on Organic Acid Technology (OAT), to produce finished antifreeze which is free from any nitrite, amine, phosphate, borax, silicate and 2-Ethylhexanoate.

BLENDING INSTRUCTION TO PRODUCE AN ENGINE COOLANT CONCENTRATE

ASCOTRAN®-RCX is readily mixable with glycols. The recommended dosage rate for ASCOTRAN®-RCX with MEG or MPG is 8% by weight. Dyestuffs can be incorporated into the blend to color in accordance with customer requirements. The final coolant solution can be prepared with minimum 25% of this concentrate diluted into deionized water.

BENEFITS

- Offers extended, low maintenance corrosion protection.
- Offers reliable protection to a wide range of metals including aluminium, copper, iron and solder alloys.
- High performing, even with vulnerable cooling components (thermostats, radiators, water pumps,...).
- High temperature aluminium corrosion resistance.
- Excellent cavitation protection.
- Improved hard water stability (free from any phosphate and silicate).
- High resistance to foaming.
- Environmentally friendly.
- More respectful of human health (free from any borate, nitrite and 2-Ethylhexanoate).
- Meets most European and International Standards.

OTHER APPLICATIONS

ASCOTRAN®-RCX can also be mixed with appropriate amount of glycol, water or alcohol to be used as :

- heat-transfer fluid for geothermal systems ;
- heat-transfer fluid for solar panels ;
- coolant/antifreeze for industrial machinery ;
- flushing fluid of hot test fluid for engine blocks and all cooling systems.

CHEMICAL AND PHYSICAL PROPERTIES

Chemical nature :	Aqueous blend of organic salts	
Appearance :	Clear liquid	
Density (20°C) :	1,08 ± 0,02	ASTM D1122
pH (20°C) :	9,7 ± 0,3	ASTM D1287
Viscosity (20°C) :	< 30 cPs	ASTM D2515
Freezing point :	~ 0°C	ASTM D1177

PACKAGING

Plastic pail of **30 kg** net.
Metal drum of **200 kg** net.
IBC of **1000 kg** net.

STORAGE / TRANSPORT

Ideal temperature conditions for storage : 0 to 30°C.
Exposure : avoid direct exposure to sunlight.
Expiration : 2 years in its original closed drum, with the storage conditions described above.
No specific condition for transport. Gross packaging weight and size* (off-pallet) :
Pail : 31,5kg - Ø30, H50 cm
Drum : 220kg - Ø60, H90 cm
IBC : 1060kg - L120, 1100, H120 cm
* : non-contractual data

Note : The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests ; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.



TYPICAL PROPERTIES OF ENGINE COOLANT MANUFACTURED WITH ASCOTRAN®-RCX

	METHOD	Coolant MEG : 92% RCX : 8%	ASTM D3306 REQUIREMENTS
pH (50% DI water)	ASTM D1287	8 - 9	7,5 to 11,0
Water content	ASTM D1123	< 5%	5% w/w max
Ash content	ASTM D1119	< 20ppm	5% w/w max
Specific gravity (15°C)	ASTM D5931	1.117	1.110 to 1.145
Reserve alkalinity (pH 5.5)	ASTM D1121	4,2 ml	Report
Foaming properties	ASTM D1881	<50 ml / <2s	150ml / 5s max
Hard water stability	ASTM D7437	< 0,5 ml	/
Glassware corrosion tests	ASTM D1384	Weight loss (mg/specimen) Copper : 0,7 Solder : 1,8 Brass : 0,3 Steel : -0,2 ¹ Cast Iron : -0,8 ¹ Aluminium : 1,2	Weight loss (mg/specimen) Copper : 10 max Solder : 30 max Brass : 10 max Steel : 10 max Cast Iron : 10 max Aluminium : 30 max
Corrosion of cast-aluminium alloys at heat-rejecting surfaces	ASTM D4340	Weight loss (mg/cm ² /week) 0,9	Weight loss (mg/cm ² /week) ±1,0 max
Cavitation/erosion tests	ASTM D2809	Visual rating 9	Visual rating 8 min
Simulated service corrosion test	ASTM D2570	Weight loss (mg/specimen) Copper : 4.4 Solder : 6.8 Brass : 2.8 Steel : -2.2 ¹ Cast Iron : -3.3 ¹ Aluminium : 1.2	Weight loss (mg/specimen) Copper : 20 max Solder : 60 max Brass : 20 max Steel : 20 max Cast Iron : 20 max Aluminium : 60 max

1 : Weight gain is indicated by a - sign

INTERNATIONAL, NATIONAL AND MILITARY STANDARDS MET BY ENGINE COOLANT CONCENTRATES BASED ON ASCOTRAN®-RCX

Coolant concentrates manufactured with 8% wt/wt of ASCOTRAN®-RCX meet the specifications of the following standards :

-ASTM D3306, D4656, D4985

-BS 6580

-NFR 15-601*

-SAE J 1034

-FVV Heft R443

-CUNA NC 956-16

-NATO S-759

-UNE 26-361-88

* with the exception of reserve alkalinity

OEM SPECIFICATIONS² MET BY ENGINE COOLANTS BASED ON ASCOTRAN®-RCX

CHRYSLER	MS 9176	MAN	324 SNF
CUMMINS	85T8-2	MAZDA	MEZ MN 121D
DAF	MAT 74002	MTU	MTL 5048
DAIMLER	325.3	PORSCHE	MY 1996 to MY 2010
DEUTZ	MWN 0199.2091	PSA	B715110
FORD	WSS-M97B44D, ESE M 97B49-A	RENAULT	41-01-001
GM	6277M	VOLVO	REG260 ; 128 6083/002
MACK	014GS17004, 014GS 17009	VW	TL774D (G12, G30) . TL774F (G12+, G30)

2 : Non-exhaustive list. For other OEM standards, please contact our technical service

