

## KORSANTIN LONG LIFE HD 100

### 1. DESCRIPTION/APPLICATION

**KORSANTIN LONG LIFE HD 100** is a concentrated coolant liquid based on monoethylene-glycol. It contains the corrosion inhibitor package based on nitrated organic acids (NOAT), without amines and phosphates, which secures protection of all metal engine parts, including aluminium and iron alloys.

It is fully formulated for heavy duty engines. Developed to meet the most stringent criteria of engine manufacturers.

Dilute with water before use in accordance with the mixing table (page 2).

**KORSANTIN LONG LIFE HD 100** secures:

- Lasting effectiveness – 4 years
- Secure protection against overheating
- Lower maintenance costs
- Excellent pump protection against cavitation
- Exceptional protection of all parts of the cooling system, made from various alloys
- Compatibility with elastomers
- Excellent compatibility with hard water

### 2. PRODUCT QUALITY

Meets the following OEM specifications			Meets the following international standards		
CAT	EC-1	pass	BS	6580	pass
Navistar	B1 type III	pass	E/L	1415c	pass
Cummins	CES 14603	pass	ASTM	D6210/6211	pass
John Deere	HD24	pass	UNE	26361-88	pass
MAN	324	pass	NATO Standard	S-759	pass
Mercedes	DBL 325	pass	FVV	Heft R 443	pass
Detroit Diesel	SE298	pass	CUNA	NC 956-16	pass
Land Rover	C.S.	pass	KSM	2142	pass
GM	1825/1899 H.T.	pass			
VOLVO/SAAB/SCANIA	6901	pass			
Kenworth	R 026-170-97	pass			
Mack	14GS7009	pass			
Freightliner	48-22880	pass			
New Holland	WSN-M97B18-D	pass			
Paccar	C.S.	pass			
Peterbilt	8502.002	pass			
IVECO	18-1830	pass			

### 3. PACKAGING AND DELIVERY

The product is delivered in original packaging. Each shipment is accompanied by a quality certificate.

**Plastic canisters:** 1L, 4L; **Metal drums:** 200L; **IBC containers:** 1000L; **Bulk:** yes

## 4. TYPICAL CHARACTERISTICS

Characteristics	Test method	Typical value
Appearance	visual	Transparent red liquid
Density (20°C), kg/m <sup>3</sup>	ASTM D 1122	1110 – 1145
Boiling point, °C, min.	ASTM D 1120 / SRPS H.Z8.058	183
Freezing point, °C, max. (for mixture: KORSANTIN L.L. HD 100:H <sub>2</sub> O = 1:1)	ASTM D 1177 / SRPS H.Z8.053	-37
Foaming/stability of foam, mL/sec	ASTM D 1881 / SRPS H.Z8.057	10/0
pH	ASTM D 1287	8.0 – 9.0
Reserve alkalinity, mL HCL/10mL, min.	ASTM D 1121	6.0 – 8.0

## 5. STORAGE AND HANDLING

<b>Storage</b>	<p>The product should be stored in dry, cool, well ventilated places, protected from direct atmospheric influence. Avoid heat sources and strong corrosion agents.</p> <p>Weather conditions may damage labels on packaging. Excessive changes in ambient temperature may cause leakage. As the content expands and shrinks, water may be entrained through caps, although the drums are sealed.</p> <p>If stored in an open area we recommend the following precautions:</p> <ul style="list-style-type: none"> <li>• Lay the drums so that the caps are at 9:00 and 3:00 o'clock position so moisture penetration and seal drying is minimized.</li> <li>• If the drums are vertically positioned, they should be slightly tilted to avoid water accumulation on the upper surface.</li> <li>• Caps must be sealed tight. Before removing the caps, upper drum surface should be dried and cleaned to avoid lubricant pollution.</li> <li>• Large tanks should preferably be used indoors with an outside breather line.</li> </ul>	
<b>Storage temperature:</b>	Ambient. Exposure to temperatures above 35°C should be avoided.	
<b>Recommended materials for storing:</b>	Metal drums or polyethylene canisters.	
<b>Materials that are not recommended:</b>	Do not use packaging that contains zinc.	
<b>Other information:</b>	Polyethylene packaging material should not be exposed to high temperatures because of possible risk of distortion.	
<b>Mixing table:</b>	Freezing point, °C	Parts, vol % (KORSANTIN L.L. HD 100 : water)
	-40	50 : 50
	-35	45 : 55
	-28	40 : 60
	-23	35 : 65