



Shellberge
Global Resources Ltd.

HD XF1

Concentrated Radiator Coolant

Product Description

Shellberge HD XF1 Concentrated Coolant is a single phase, ethylene glycol antifreeze/coolants based on an aliphatic corrosion inhibitor system.

Applications

Shellberge HD XF1 Concentrated Coolant is based on a patented aliphatic organic additive formulation that provides a service life of 250,000 kilometers/5 years. The main corrosion inhibitors in Shellberge HD XF1 Concentrated Coolant have been shown to remain above 95% of their original concentration with proper top off after 250,000 kilometers in automobiles. This allows much longer intervals between coolant change-outs. Shellberge HD XF1 Concentrated Coolant has been formulated without inhibitors such as silicates that have been shown to be abrasive to water pump seals. In comparison taxi field tests versus conventional coolants, Shellberge HD XF1 Concentrated Coolant reduced the need to replace water pumps during the 160,000 kilometer test.

Note: These products are not to be used to protect the inside of potable water systems against freezing

Features and Benefits

Shellberge HD XF1 Concentrated Coolant provides the following qualities:

- Universal formula for both automotive and heavy duty diesel engines
- Excellent heat transfer properties
- Excellent anti-foam characteristics
- Excellent corrosion protection for aluminum, brass, copper, solder, steel and cast iron
- Low silicate formulation
- Nitrite-free, amine-free and borax-free
- Concentrate mixes readily with clean tap water
- Compatible with cooling system filters
- Compatible with heavy duty diesel supplemental coolant additives
- Compatible with conventional brands of coolant
- 100% biodegradable in its pure unused form

Typical Characteristics of Shellberge HD XF1

	Typical Concentrate	Typical 50/50
Appearance	Fluorescent Green	Greenish/Fluorescent Green
Specific gravity	1.13	1.06
Freezing point, °F (ASTM D 1177) 50 vol % q.s. aqueous solution	-34	-33
pH (ASTM D 1287), 1:2 dilution with water	10.5	10.3
Reserve Alkalinity (ASTM D 1121), as received	12.2	6.1
Silicate, % (as Anhydrous Alkali Metasilicate)	0.09	0.045