



Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant

Nitrited OAT Extended Life heavy duty ethylene glycol engine Antifreeze/ Coolant 50% Pre-Diluted

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant is an extended life ethylene glycol antifreeze for heavy duty diesel, gasoline, and natural gas powered engines. Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant contains OAT corrosion inhibitor technology plus nitrites and molybdates. The product is free of amines, borates, nitrates, phosphates and silicates. It provides excellent corrosion protection of HD engines and cooling system components without the use of supplemental coolant additives (SCAs). Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant also provides protection of light duty engines making it suitable for mixed fleet applications. It is a pre-diluted and ready-to-use as is, requiring no further dilution.

Applications

Heavy duty diesel or gasoline engines

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant is formulated to be an extended life coolant in heavy duty applications, found in on-road, off-road, marine, farm, mining and construction equipment.

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant contains organic additive technology corrosion inhibitors along with molybdate and nitrite to provide extra protection to cylinder liners found in heavy duty applications. It will not require an initial charge of supplemental coolant additives (SCAs).

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant also provides protection in light duty engines making it highly suitable for mixed fleets (light duty as well as heavy duty gasoline and diesel engines).

Performance Features and Benefits

- **All-climate year round performance**

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant provides freeze protection down to -37°C and boilover protection up to +132°C (with the use of a 120 kPa pressure cap).

- **Extended Life Capability**

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant typically provides up to 12,000 hours or 1 million km in heavy duty applications under normal operating conditions, provided the coolant is kept in good condition with the nitrite level in line with the engine's OEM's requirements (typically SCA extenders are required at 6,000 hrs/ 500,000 km).

- **Field Compatibility**

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant is miscible and compatible with other engine antifreeze of similar type; although to get the best performance from the long life capabilities, it is always recommended to not dilute Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant with other coolants. It is also compatible with standard heavy duty SCAs, coolant filters and hard water.

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant is part of the Shell family of heavy duty lubricants and coolants for the heavy duty market.

It is also compatible with Coolant Extenders that are or have been used with OAT engine coolant technology.





Specifications and Approvals

Shell HD Ultra ELC-N 50% Pre-Diluted Antifreeze/ Coolant has been formulated to meet the following coolant specifications:

OEM / Industry	Specification
ASTM	D3306, D4985, D6210
AS/NZS	2108.1:1997 "Type A"
Caterpillar	EC-1 (Sections 2.3 – 4.5 incl.)
Cummins Bulletin	3666132 and 14603
Detroit Diesel	7SE298 and 93K217
Freightliner	48-22880,
General Motors	1825M, 1899M, Heavy Truck
International Truck & Engine	CEMS B-1
JIS	K 2234
John Deere	JDM H24
Kenworth	R026-170-97
Landrover	
Mack Truck	014GS17004
MAN	MAN 324
Mercedes-Benz	DBL 7700
MTU	MTL 5048
PACCAR	CS0185
Peterbilt	8502.002
SAE	J1034
Scania	TB1451
TMC	RP 329

Volvo

Health & Safety

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your Recochem representative.

Protect the Environment

Take used coolant products to an authorised collection point. Do not discharge into drains, soil or water.

Extended Shelf Life

When stored undercover, away from moisture and direct sunlight, this product should be suitable for use for up to two years after manufacture.

Typical Physical and Chemical Characteristics

HD Ultra ELC-N 50%Pre-Diluted Antifreeze/Coolant	Performance	Test Method
Appearance, visual colour	Red-Orange	Visual
Ash Content (% w/w)	2.5 Max	ASTM D 1119
Freeze point as sold	-37°C	ASTM D 1177
pH as sold	7.5 – 9.5	ASTM D 1287
Reserve Alkalinity (ml 0.1N HCL)	1.5 Min	ASTM D 1121
Shelf life (unused)	2 years	
Silicon as silicate (ppm)	<10	ASTM D 6130
Specific Gravity (15.6°C)	1.070 – 1.080	ASTM D 1122

These characteristics are typical of current production. Whilst future production will conform to Recochem's specification, variations in these characteristics may occur.

