

# SHELL HD PREMIUM COOLANT-N PRE-DILUTED 50/50

PREMIUM LONG-LIFE, FULLY FORMULATED, OAT-HYBRID, NITRITED HEAVY-DUTY ETHYLENE GLYCOL ENGINE COOLANT PRE-DILUTED AND READY-TO-USE

DESIGNED TO MEET CHALLENGES

Shell HD Premium Coolant-N Pre-Diluted 50/50 is a fully formulated long life heavy-duty ethylene glycol antifreeze coolant. The product is a hybrid coolant, containing the combination of organic additive technology inhibitors boosted with borate, nitrite, nitrate, molybdate and silicate inorganic corrosion inhibitors. It is a low silicate, phosphate-free, and amine-free coolant. It is suitable for heavy-duty applications without supplemental coolant additives (SCAs) during the initial fill. Shell HD Premium Coolant-N Pre-Diluted 50/50 is ready-to-use. It requires no further dilution.

## PERFORMANCE FEATURES

### ALL-CLIMATE YEAR ROUND PERFORMANCE

- n As sold Shell HD Premium Coolant-N Pre-Diluted 50/50 provides freeze protection to -37°C and boilover protection to 129°C (with the use of a 103.4 kPa pressure cap).

### LONG LIFE CAPABILITY

- n Shell HD Premium Coolant-N Pre-Diluted 50/50 typically provides 5 years, or 240,000 kilometer service (whichever comes first) in automotive service and can provide up to 12,000 hours or 1 million kilometers in heavy-duty applications under normal operating conditions, provided the coolant is frequently checked and kept in good condition with the SCAs levels in line with the engine's OEM's requirements (typically SCA extenders are required at 6,000 hrs/500,000 km).

### FIELD COMPATIBILITY

- n Shell HD Premium Coolant-N Pre-Diluted 50/50 is miscible and compatible with other engine coolant (antifreeze); although to get the best performance from the long life capabilities and the time between SCA additions, it is always recommended to not dilute Shell HD Premium Coolant-N Pre-Diluted 50/50 with other coolants or water. It is also compatible with standard heavy-duty SCAs and coolant filters. As sold it is ready for use – do not add water.
- n Shell HD Premium Coolant-N Pre-Diluted 50/50 is part of the Shell family of heavy-duty lubricants and coolants for the heavy-duty market.

## APPLICATIONS

### HEAVY-DUTY PETROL OR DIESEL ENGINE ANTIFREEZE

- n Shell HD Premium Coolant-N Pre-Diluted 50/50 is an amine and phosphate free fully formulated long life engine coolant suitable for automotive and heavy-duty petrol and diesel engines found in on-road, off-road, marine, farm, mining and construction equipment.
- n Shell HD Premium Coolant-N Pre-Diluted 50/50 contains organic additive technology corrosion inhibitors as well as inorganic corrosion inhibitors, borate, molybdenum, nitrite, nitrate and silicate.
- n This product does not require a charge of supplemental coolant additives (SCAs) during the initial fill or if the system is drained and fully charged with new Shell HD Premium Coolant-N Pre-Diluted 50/50. It is recommended in diesel applications that the coolant be checked frequently and SCAs replenished to comply with the engine's OEM recommendations.
- n Shell HD Premium Coolant-N Pre-Diluted 50/50 is specifically formulated to protect cylinder liners from pitting in heavy-duty applications. The low silicate level also provides aluminium compatibility for use in both light and heavy-duty applications,

making it highly suitable for mixed fleets (light duty as well as heavy-duty petrol and diesel engines).

## SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

Shell HD Premium Coolant-N Pre-Diluted 50/50 has been formulated to meet following coolant specifications:

- n ASTM: D3306, D4985, D6210
- n AS/NZ: 2108.1:1997 'Type A'
- n Caterpillar: EC-1 (sections 2.3–4.5 incl.)
- n Cummins: Bulletin 3666132
- n Daimler Chrysler: MS 7170
- n Detroit Diesel: 7SE298, 93K217
- n Freightliner: 48-22880
- n General Motors: 1825M, 1899M, Heavy Truck
- n JLS: K 2234
- n John Deere: H24
- n Kenworth: RO26-170-97
- n MAN: 324
- n Mercedes-Benz: DBL 7700
- n MTU: MTL 5048
- n PACCAR
- n Peterbilt: 8502.002
- n SAE: J1034, J1941
- n Scania: 6901
- n TMC: RP 329.

## TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	
Appearance/Visual colour	Yellow
Ash Content (w/w%) (ASTM D 1119)	2.5 max.
Freeze Point 50% volume (ASTM D 1177)	-37°C
pH as sold ASTM D 1287	7.6–8.6
Reserve Alkalinity (ml 0.1N HCL) (ASTM D 1121)	3.0 min.
Shelf Life (unused)	2 years
Silicon as Silicate (ppm) ICP	110 max.

## TYPICAL FREEZE/BOILOVER PROTECTION MIXING CHART

SHELL HD PREMIUM COOLANT-N PRE-DILUTED 50/50	COOLANT PRE-DILUTED AS SOLD
Freeze Point Protection °C	-37°C
Freeze Point Protection °C using a 103.4 kPa pressure cap	+129