

Technical Data Sheet (TDS)

Shell Premium Heavy Duty Coolant N RTU 50/50

Premium MEG Based Heavy Duty Nitrited OAT Coolant



Shell Premium Heavy Duty Coolant N RTU 50/50 is an ethylene glycol-based ready to use coolant. The additive package is designed with the latest inhibitor component technology to produce finished antifreeze which is free of borates, nitrates, amines, phosphates and silicate. The combination of the long lasting organic additives with carefully selected mineral inhibitors makes this technology extremely suitable for application in heavy duty cast iron engines. When mixed with water at the appropriate rate, the coolant will provide the following advantages:

1. Improved anticorrosion protection of all metals and especially cast iron which makes this product extremely useful in heavy duty application.
2. Excellent protection for cylinder liners from the effects of cavitation-erosion
3. Thermal characteristics that permit effective engine cooling without boiling.
4. Elimination of deposit problems caused by the use of hard water.
5. Protection against frost.
6. Excellent antifoaming characteristics.
7. Meets most European and International Standards including **ASTM D6210**.
8. Suitable for use against applications requiring the **CAT EC-1** standard.

| Typical Properties Shell Premium HD Coolant N RTU 50/50 | |
|---|--|
| Appearance | Clear liquid |
| Density at 20 °C | 1,07 - 1,08 g/cm ³ ASTM D4052 |
| pH | 8,3 ASTM D1287 |
| Freezing Point | -37 °C ASTM D 1177 |
| Boiling Point | 110 °C ASTM D 1120 |
| Reserve Alkalinity (ml HCl N/10) | 5,5 ml ASTM D 1121 |
| Foaming Characteristics at 88 °C | ASTM D 1881 |
| - Height | 30 ml |
| - Breaktime | 2 seconds |

These are typical properties and do not constitute a specification, for specification limits please refer to the product specification. Product can be dyed to different colours upon request.

Main International standard requirement met by **Shell Premium Heavy Duty Coolant N RTU 50/50**:

BS 6580 (GB); FVV Heft R 443 (D); AFNOR R 15/601 (F); SAE J1034*; JIS K 2234* (J); KMS 2142 (K); CUNA NC 956-16 (I); UNE 26361-88 (E); EMPA (CH); E/L 1415c (MIL Italy); NATO S 759;ASTM D6210 and 6211.

* except reserve alkalinity

OEM specifications met by **Shell Premium Heavy Duty Coolant N RTU 50/50**:

CAT EC-1; Navistar B1 Type III; Cummins CES 14603; Mercedes DBL 325; Detroit Diesel/SE298; Land Rover C. S.; GM 1825/1899 H. T.; MTU 5048; Volvo Saab Scania 6901; Kenwoth R 026-170-97; John Deere HD24; MAN 324; Mack 14GS7009; Freighliner 48-22880; New Holland WSN-M97B18-D; Peterbilt 8502.002; Paccar C. S.; IVECO 18-1830.

Kemetyl Kimya San.Tic.Ltd.Şti.

Küçükbakkalköy Mah. Dereboyu Cad. Brandium AVYM R5 Blok D:82 Ataşehir/İstanbul, Türkiye

Tel : +90 216 455 16 41-42 www.kemetyl.com.tr

Technical Data Sheet (TDS)

Shell Premium Heavy Duty Coolant N RTU 50/50

Premium MEG Based Heavy Duty Nitrited OAT Coolant



Freeze Protection

Shell Premium Heavy Duty Coolant N RTU 50/50 is a ready to use product and shouldn't be diluted for optimum performance.

Corrosion Protection

The inhibitor package of **Shell Premium Heavy Duty Coolant N RTU 50/50** has been developed based upon latest technology to give long-term protection for all the metals presents in the modern heavy-duty engines, including aluminium and brass. **Shell Premium Heavy Duty Coolant N RTU 50/50** provides extra protection of the alloys used in the cooling system of modern vehicles.

Compatibility

Shell Premium Heavy Duty Coolant N RTU 50/50 is diluted with demineralized water. **Shell Premium Heavy Duty Coolant N RTU 50/50** is compatible with all types of plastics and rubbers used in engine coolant systems.

Shell Premium Heavy Duty Coolant N RTU 50/50 is fully miscible with other coolants and can be safely mixed with them. However, as **Shell Premium Heavy Duty Coolant N RTU 50/50** employs an inhibitor type that is very different to that used in traditional mineral coolants it recommended to drain and flush cooling systems containing them before recharging with diluted **Shell Premium Heavy Duty Coolant N RTU 50/50**. Failure to do so could significantly lower the performance and longevity of the product.

Storage and Handling

Shell Premium Heavy Duty Coolant N RTU 50/50 has a shelf life of at least minimum four years when stored in air tight containers at a maximum temperature of 30°C. Translucent containers should not be stored outside in direct sunlight, especially in warm climates. **Shell Premium Heavy Duty Coolant N RTU 50/50** can be stored in mild steel, lacquer lined or HDPE containers. As with any glycol-based engine coolant the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.

Disposal of used or unused coolant must be carried out in accordance with local and national law, consult the material safety data sheet for further information.

Technical Data Sheet (TDS)

Shell Premium Heavy Duty Coolant N RTU 50/50

Premium MEG Based Heavy Duty Nitrited OAT Coolant



Hazards and Safety

As with all chemical products, awareness and control of any potential hazards is of high importance. Please consult the material safety data sheet which is available detailing the hazards associated with this product.

The content of this Technical Data Sheet has been prepared by taking into consideration the relevant international standards and the information contained in specifications of vehicle and equipment manufacturers. This Technical Data Sheet and the statements in content cannot be interpreted as a guarantee commitment in respect of product specifications or usage in any application.

It is the consumer's responsibility to use this product in accordance with its ordinary purpose and comply with the applicable laws and regulations. Kemetyl Kimya San. Tic. Ltd. Şti. shall not be held responsible for any claims or damages arising out of abnormal use, improper usage, use for the wrongful purposes or risks and consequences by the nature of product structure.

This Technical Data Sheet shall be valid on issue date. Right to amend information provided in content of this Technical Data Sheet without prior notice is reserved.