



Shell Ensis Fluid SX

Advanced solvent-based grease film rust preventive with water-displacing properties

Shell Ensis Fluid SX is an advanced rust preventive blended of selected rust prevention components dissolved in a high-flash point solvent. Ensis Fluid SX is specially intended for medium-term to long-term protection.

Main Applications

Protection of spare parts during storage

Ensis Fluid SX is suitable for the protection of many types of spare parts during storage: engine components, automotive parts and extruded and machined surfaces.

Protection in acidic environment

Ensis Fluid SX enables the storage protection in acid or other aggressive atmospheres.

Application [*]: Dipping
Spraying
Brushing

[*] It is best applied by dipping but can also be sprayed. Brushing of the fluid can also be used but extra care must be taken to ensure that adventitious dirt, particulates or brush fibres are not inadvertently introduced which may remain in the film as they can significantly detract from anti-corrosion performance. Product must be protected against frost. The product must be shaken before use (risk of a small degree of frosting but this does not alter performance).
Duration of fluid storage: 12 months maximum

Performance Features

High flash point (> 62 C)

Reduced evaporation loss from tanks. Reduced Health and Safety demands. Reduced storage requirements.

Excellent water displacement

Ensis Fluid SX exhibits excellent dewatering properties, which speed up and simplify manufacturing processes & prevent drying of parts before they are protected.

Effective against acid and other aggressive atmospheres

Performance Specifications

ISO 6743-8 (1987): ISO-L-REE category.

Advice

Compatibility

Ensis Fluid SX is compatible with normal steel components and pipework prevalent in the construction of application systems. Care should be exercised with the selection and use of seals and paints in contact with this product. Advice on applications not covered in this leaflet may be obtained from your Shell representative

Health & Safety

Ensis Fluid SX is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained. Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Typical Physical Characteristics

| | | | |
|--|-------------------------------------|------------------------------|---|
| Shell Ensis Fluid SX | | | |
| Film Charact. ISO Standard Nature Grease | μm | ISO 6743-8 | ISO-L-REE grease film 8 |
| Appearance @ 20C | | visual | brown, opaque liquid |
| Density @ 15C | kg/m ³ | ASTM D 4052 | 840 |
| Dewatering Prop. | | NFT 60-168 (or IP 178-74) | pass |
| Nonvolatilecontent | %(w/w) | EN ISO 3251 | 31 |
| Pour point | °C | ISO 3016 | 3 |
| Kinematic Visc. | mm ² /s | ASTM D 445 | 20 [**] |
| Flashpt. PMCC | °C | ISO 2719 | > 62 |
| Acid no. | mgKOH/g | ASTM D 974 | 1.4 |
| Covering Cpcty | m ² /l | | 39 |
| Dry time @ 20C | minutes | | 90 |
| Removal | | | hydrocarbon solvents, alkali cleaners |
| AntiCorrosion Prop Film(by dip.@20C) Cyclic Humid. test SaltSpray Fog test | g/m ² cycles hours | DIN 50017 ASTM B 117 | 8 > 50 380 |
| Protect. duration Indoors Outdoors covered " "Uncovered | months months months | | 24 12 6 |

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

For more information please contact your Shell Marine Products Representative or refer to the Port Services Guide on our website: www.shell.com/marine
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