

**REPSOL****Shanghai PingYiao Trading CO., Ltd.**

**REPSOL**
INDUSTRIAL***SINTETICO
COMANDER EHC***

Description

It is a high performance, fire-resistant hydraulic fluid designed for use in Electro-hydraulic Control steam turbine systems, including those systems which use low tolerance servo-valves. As it is synthetic, any changes from universal fluids to this type should not be made without prior consultation as its compatibility with joints is completely different.

Recommended uses

Control systems of steam turbines in conventional nuclear or heat centres. For example, lubricant in gas turbines.

Qualities

Fire resistance (Mutual-Standard-6930)

Heated circuit test without ignition

Spray ignition (maximum burning persistence) 3 seconds

Anti-wear

Testing in Vickers pump 250 hours:

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Address: Xuhui District, Shanghai Caoxi Yin Hai Building, A1207 Room, No. 250

Telephone helpline: 15900706965

Website: www.pingyiao.com

Tel: 86-21-64705533

Fax: 86-21-64705533-209

E-mail: info@pingyiao.com



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Hoop weight loss: 5.9 mg.

Pallet weight loss: 3.3 mg

Total loss: 9.2 mg

Four-ball test (40Kg. 1 hour)

Average ring diameter: 0.6 mm

FZG test FZG $\sqrt{\text{Load level}}$: 8

Quality Level

FHD fluid. Approved by the principal turbine manufacturers such as Siemens-KWU, BBC, AEG, PARSON, etc

Complies with ASTM-D-4293, ISO-LTCD

Technical Characteristics

| | UNITS | METHOD | VALUE |
|-------------------------------|-------|------------|-------|
| ISO Grade VG | | | 46 |
| Density 20 \geq C g/ml | | ASTMD4052 | 1,13 |
| Viscosity at 100° C cSt | | ASTMD445 | 5 |
| Viscosity at 40° C cSt | | ASTMD445 | 43,4 |
| Viscosity at 20° C cSt | | ASTMD445 | 175 |
| Viscosity at 0° C cSt | | ASTMD445 | 1700 |
| Pour point | ° C | ASTM D 97 | -20 |
| Flash point VA | ° C | ASTM D 92 | 246 |
| Auto-ignition point | ° C | ASTM D 92 | 575 |
| Aeroemulsion at 50° C minutes | | IP-313 | 1 |
| Foaminess at 24° C Formation | ml | ASTM D 892 | 25 |
| Foaminess at 24° C Stability | ml | ASTM D 892 | 0 |

Packaging

200 Kg. drums

Hazard Identification

This product is not classified as toxic or hazardous under current legislation.

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Handling

Certain minimum precautions to avoid prolonged contact with the skin should be taken when handling. The use of gloves, visors or masks is recommended in order to avoid splashes.

Health and safety hazards

Inhalation: Minimum risk of inhalation as it is a non-volatile product.

Ingestion: Does not provoke vomiting. Drink water. Seek medical assistance.

Contact with Skin: Wash with abundant water and soap.

Eyes: Wash with abundant water.

General measures: Seek medical assistance.

Fire fighting measure

No special measures are required.

Fire control: Foams, dry chemicals, CO₂, water spray. Do not apply water jet directly as this may cause the product to spread.

Environmental precautions

Danger of physical contamination in the case of spillage (water flows, coastal areas, the ground, etc.) due to its floating capacity and oily consistency which may cause damage to fauna and flora with which it comes into contact. Avoid its penetration into water containers or outlets.

Decontamination and cleaning: Treat as an accidental oil spillage. Avoid spreading by using mechanical barriers and eliminate using both physical and chemical means.

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Unless otherwise specified, the values cited in technical characteristics should be considered as typical.

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