



Shanghai PingYiao Trading CO., Ltd.

## EMPATEM CC-30 GS

Translation of the original Spanish. In case of a discrepancy, the Spanish original prevails

### Description and Recommendations

A hydrogenated base oil (from Hydrocracking) with special additives that provide the properties required in continuous steel casting. Empatem CC-30 GS is particularly suitable for lubricating the extraction from the mould of cast steel prepared in the crucible in cases where minimum carbonaceous residue is needed.

### Properties

Provides an excellent finish on the ingots. Minimum sulphur content, meaning that possible toxicity of machine operators is avoided, as is corrosion of the moulds. Very low aromatics, reducing bothersome smoke to a minimum. Good lubricating power for the requirements it is subject to. Minimum losses due to volatility. Very low tendency to form carbonaceous residue.

### Technical characteristics

|                                | UNITS    | METHOD      | VALUE                  |
|--------------------------------|----------|-------------|------------------------|
| Appearance                     |          |             | Glossy and transparent |
| Colour                         |          | ASTM D 1500 | 1,5                    |
| Density at 15°C                | g/ml     | ASTM D 4052 | 0,840                  |
| Viscosity at 40°C              | cSt      | ASTM D 445  | 32                     |
| Viscosity at 100°C             | cSt      | ASTM D 445  | 6                      |
| Viscosity rate                 |          | ASTM D 2270 | 135                    |
| Flammability V/A               | °C       | ASTM D 92   | 225                    |
| Aniline point                  | °C       | ASTM D 611  | 95                     |
| Pour point                     | °C       | ASTM D 97   | -20                    |
| Saponification rate            | mg KOH/g | ASTM D 94   | 14                     |
| Noack volatility, 1hr at 150°C |          | DIN 51581   | 2                      |
| Ramsbottom carbon              | %        | ASTM D 5424 | 0,02                   |
| Cu corrosion, 3hr at 100°C     |          | ASTM D 130  | 1a                     |

### Overview

Bulk

### Hazard identification

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

Shanghai PingYiao Trading CO., Ltd.

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### Handling

Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

### Health and safety risks.

Inhalation: As this product has low volatility, the risk of inhalation is minimal. Ingestion: Do not make an affected person vomit. Supply water. Get medical help. Contact with the skin: Wash thoroughly with soap and water. Eyes: Wash thoroughly with water. General measures: Get medical help.

### Fire-fighting measures

No special measures required. Extinction: Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply a jet of water directly, as it could spread the product.

### Environmental precautions

Danger of physical pollution if spilt (water, coastlines, soil, etc.) due to its floatability and oily consistency that may harm flora and fauna on contact. Prevent the material from entering the water supply. Decontamination and cleaning: Treat as an accidental oil spillage. Avoid dispersion using mechanical barriers and remove with physical or chemical elements.

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