



Shanghai PingYiao Trading CO., Ltd.

IBERTEM 99-F

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

Description and Recommendations

A natural paraffin mineral oil with high viscosity, formulated with highly refined selected base oils and special additives, which provide the properties required to overcome the difficult conditions needed for hot, rapid steel hardening. Ibertem 99-F is particularly suitable for use in hot, rapid hardening, where the bath temperature is between 150 and 180°C and even higher if there is a closed atmosphere. This kind of oil is used with non-alloy or low alloy parts.

Properties

High cooling speed. Appropriate additives are used to achieve excellent resistance to oxidation and the formation of sludge and dirt, creating a long lasting product. Very good thermal stability and low volatility, which reduces smoke and the risk of fire. Good foam resistance. Avoids surface blackening of the piece to be hardened. Uniform and lasting hardening capacity.

Technical characteristics

	UNITS	METHOD	VALUE
Appearance			Glossy and transparent
Colour		ASTM D 1500	<7
Density at 15°C	g/ml	ASTM D 4052	0,910
Viscosity at 40°C	cSt	ASTM D 445	215
Viscosity at 100°C	cSt	ASTM D 445	18,5
Viscosity rate		ASTM D 2270	95
Flammability V/A	°C	ASTM D 92	250
Aniline point	°C	ASTM D 611	95
Neutralisation index	mg KOH/g		0,2
Noack volatility, 1hr at 150°C		DIN 51581	0,30

Overview

Bulk and 185 kg cans.

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, CO₂, 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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