

Castrol Iloform FST 4

Chlorine free neat forming oil

Description

Castrol Iloform™ FST 4 is a medium viscosity, neat forming oil containing high levels of advanced lubricity and extreme pressure additives. It is free of chlorine and heavy metals, such as Barium.

Application

Iloform FST 4 has been specifically developed for medium duty fine blanking applications of carbon steel parts, such as automotive gear box and transmission parts, seat recliners, spring discs, brake pad plates etc. The product shows reliable performance at medium to high steel sheet metal thickness.

The enhanced lubrication package also allows the use in medium duty deep drawing and stamping operations.

Iloform FST 4 is designed to be used as received.

Advantages

- Superior adhesion and wetting properties provide homogenous lubricating film which improves parts quality.
- Excellent surface finish and cleanly sheared straight edges, especially on fine blanked components of sheet metal thickness up to 8 mm.
- Extreme resistance to pressure and high protection against wear enables long tool and die life and thus cuts downtime and tooling costs.
- Reliable corrosion protection reduces scrap rate.
- Chlorine- and heavy metals-free technology helps improving the environmental profile and minimises waste disposal costs.

Typical Characteristics

	Test Method	Unit	Value
Appearance	Visual	–	Dark brown liquid
Density @ 15°C	DIN 51 757	kg/m ³	1000
Density @ 60°F	DIN 51 757	lb/gal	8,35
Viscosity @ 40°C (104°F)	DIN 51 562	mm ² /s (cSt)	117
Flash Point	ISO 2592	°C / °F	175 / 347

Ester	Sulphur	Phosphorous	Chlorine	Other
✓✓	✓✓	✓✓		✓✓

User Advice

Iloform FST 4 is not suitable for use on yellow metals

Iloform FST 4 can be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

Additional Information

APPROVALS

Feintool – N 35 05 04 “Approval Metalworking Fluid for Fineblanking Application”

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