



Product Data

Castrol Iloform TDN 81

Neat forming oil

Description

Castrol Iloform™ TDN 81 is a medium viscosity, chlorinated, heavy duty forming fluid. It is a blend of high performance extreme pressure and lubricity additives in a fully solvent refined paraffinic mineral oil.

Application

Iloform TDN 81 is specially formulated for use in heavy duty deep drawing applications where extreme performance is required.

It is suitable for use on medium to heavy gauge steels, stainless steel, and nickel alloy steels, as well as aluminium and aluminium alloys.

Iloform TDN 81 is also recommended for use in stainless steel and alloy steel tube cold pilgering operations, where it is applied as an outer diameter roll lubricant, as well as machine gear box lubricant.

Advantages

- Contains high performance, extreme pressure additives, which provide very high resistance to temperature and pressure, and high resistance to wear. Enhanced tool and die life, cuts downtime and reduces tooling costs.
- Provides a homogenous and tenacious lubricating film. Maintains excellent performance in high throughput, or multi stage operations. Consistent, high surface quality.
- Flexibility. Suitable for use on a wide range of applications and materials. Allows potential for product rationalisation.
- Low odour and light colour. Excellent operator acceptance.

Typical Characteristics

	Test Method	Unit	Value
Appearance	Visual	Visual	Clear yellow fluid
Viscosity @ 40°C	DIN 51562	mm ² /s	150
Viscosity@ 100°F	ASTM D446	[SUS]	
Density @ 15°C	DIN 51757 ASTM D 1298	kg/m ³	1177
Density @ 60°F	Calculated	lbs/gal	9.822
Flashpoint	ISO 2592	°C	> 170
	ASTM D92	°F	> 338
Pour Point	ISO 3016	°C	
	ASTM D97	°F	
Copper corrosion	DIN51 759 T1/ASTM D130	3 h at 100°C	

Ester	Sulphur	Phosphorous	Chlorine	Other
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User Advice

Iloform TDN 81 can be cleaned using aqueous alkaline or solvent cleaners.

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