



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

| Description | Test Method | Unit | Value |
|-----------------------------|------------------------|--------------------|--------------------|
| Appearance | Visual | - | Clear amber liquid |
| Density @ 15 °C | ASTM D4052 / ISO 12185 | g/ml | 1.18 |
| Kinematic Viscosity @ 40 °C | ASTM D445 / ISO 3104 | mm ² /s | 140 |

Subject to usual manufacturing tolerances.

User Advice

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

Additional Information

| Additives | Ester | Active Sulphur | Inactive Sulphur | Phosphorous | Chlorine | Other |
|-----------|-------|----------------|------------------|-------------|----------|-------|
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Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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