

Iloform MS 42

Chlorine-free vanishing forming oil

Description

Castrol Iloform™ MS 42 is a low viscosity, chlorine free vanishing metal forming fluid. It is a blend of high lubricity boundary lubrication additives in selected low odour isoparaffin hydrocarbons, giving a balanced evaporation rate.

Application

Iloform MS 42 is specially formulated for use in light duty sheet metal stamping operations where very low residues are required, in most cases eliminating the need for inter process cleaning.

It is especially recommended for use in electrical steel stamping applications.

Iloform MS 42 is suitable for use on magnetic sheet steel with high silicon content as well as zinc coated steels.

Advantages

- Contains high performance boundary lubricants which maximise punch life and provide excellent surface finish. Helps minimising costs associated with tool repolishing.
- Reliable short term corrosion protection helps minimising rework costs.
- Quick drying, low residue characteristics can eliminate requirements for inter process cleaning.
- Low viscosity. Maximises flushing effect to aid removal of particulates from punches and dies, minimising component defects. Reduces drag out rates hence supports reducing product consumption
- Formulated on mild odour, very low aromatic isoparaffin hydrocarbon and free from chlorinated constituents which helps improving the working environment and operator acceptance.

Typical Characteristics

| Description | Test Method | Unit | Value | | |
|-----------------------------|----------------|--------------------|--|----------|-------|
| Appearance | Visual | - | Clear, colourless to light yellow liquid | | |
| Density @ 15 °C | ASTM D4052 | g/ml | 0.773 | | |
| Kinematic Viscosity @ 20 °C | ASTM D445 | mm ² /s | 1.5 | | |
| Flash Point, PMCC | ASTM D93 | °C | > 44 | | |
| Ester | Active Sulphur | Inactive Sulphur | Phosphorous | Chlorine | Other |
| √ | | √ | √ | | |

Storage

To avoid product deterioration always keep the container/drum tightly sealed. For optimum product stability, store in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. It is preferable to store the product indoors between 5°C and 30°C.

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

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