



Iloform BWN 320

Chlorine free neat forming oil

Description

Castrol Iloform™ BWN 320 is a medium viscosity, chlorine and heavy metal free drawing oil. It is a blend of high performance boundary lubricants and anti wear additives, in a fully solvent refined paraffinic mineral oil.

Application

Iloform BWN 320 is specially formulated for use in submerged multi –die, or spray multi – die wire drawing machines for drawing of medium to rod size aluminium and aluminium alloy wires.

Iloform BWN 320 is also suitable for medium duty forming applications such as deep drawing, blanking and piercing operations on aluminium and yellow metals.

Advantages

- Formulated on solvent refined mineral oil. Does not contain hazardous aromatic constituents, chlorine containing additives or heavy metals such as Barium. Reduces disposal costs.
- Contains high performance lubricity and anti wear additives. Maximises die life and provides excellent surface finish. Minimises costs associated with die repolishing.
- Excellent detergency. Removes metallic fines and particles from dies, eliminating defects associated with particulates. Improved surface finish, reducing scrap and rework costs.
- Low viscosity. Maximises flushing effect on dies to aid removal of particulates. Reduces drag out rate, hence reduces product consumption.
- Low odour. Excellent operator acceptance.
- Low residues facilitate the annealing of aluminium wire without degreasing.

Typical Characteristics

| Description | Test Method | Unit | Value |
|---|-----------------------|--------------------|-------------------|
| Appearance | Visual | - | Clear amber fluid |
| Density @ 15°C / 59°F | ASTM D1298 / ISO 3675 | g/ml | 0.89 |
| Kinematic Viscosity @ 40°C / 104°F | ASTM D445 / ISO 3104 | mm ² /s | 130 |
| Pour Point | ASTM D97 / ISO 3016 | °C/°F | 3 / 37.4 |
| Flash Point - open cup method | ASTM D92 / ISO 2592 | °C/°F | >190 / >374 |
| Copper corrosion (3 hrs@100°C / 212 °F) | ASTM D130 / ISO 2160 | - | 1a |

User Advice

Iloform BWN 320 can be easily cleaned using mild 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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15 Dec 2014
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