

Castrol Iloform BWN 310

Chlorine free neat forming oil

Description

Castrol Iloform™ BWN 310 is a low viscosity, chlorine and heavy metal free drawing oil. It is specifically developed for drawing fine to medium sized aluminium wire. It is a blend of high performance boundary lubricants and anti wear additives, in a fully solvent refined paraffinic mineral oil.

Application

Iloform BWN 310 is specially formulated for use in submerged multi –die, single die or spray multi – die wire drawing machines for drawing of fine to medium, aluminium and aluminium alloy wires.

Iloform BWN 310 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.
- 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. Easily filtered in service, to extend service life.
- Low odour. Excellent operator acceptance.
- Low residues facilitate the annealing of aluminium wire without degreasing.

Typical Characteristics

	Test Method	Unit	Value
Appearance	Visual	Visual	Clear amber fluid
Viscosity @ 40°C	DIN 51562	mm ² /s	28
Viscosity @ 100°F	ASTM D446	[SUS]	132
Density @ 15°C	DIN 51757 ASTM D 1298	kg/m ³	876
Density @ 60°F	Calculated	lbs/gal	7.31
Flashpoint	ISO 2592	°C	132
	ASTM D92	°F	270
Pour Point	ISO 3016	°C	
	ASTM D97	°F	
Copper corrosion	DIN51 759 T1/ASTM D130	3 h at 100°C	1a

Ester	Sulphur	Phosphorous	Chlorine	Other
✓				

User Advice

Iloform BWN 310 can be easily cleaned using mild alkaline or solvent cleaners.

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