

## Iloform™ PN 400

Evaporable fluid for sheet blanking

### Description

Castrol Iloform™ PN 400 (previously called Castrol Product D 503) is a low viscosity, chlorine and heavy metal free, vanishing stamping fluid. It is a blend of high lubricity boundary lubrication and wetting additives wetting agents, in low odour isoparaffinic hydrocarbon.

### Application

Iloform PN 400 is specially formulated for use in light duty metal stamping operations on magnetic sheet with high silicon content.

It is also well suitable for stamping low collar height (up to 2.1mm) aluminium fins in the refrigeration industry and shows excellent compatibility with the industries special requirements.

### Advantages

- Chlorine and heavy metal free which may help to fulfil aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded.
- Good operator acceptance as based on a mild odour, very low aromatic isoparaffinic hydrocarbon.
- Contains high performance boundary lubricants to maximise punch life which helps to minimise costs associated with tool repolishing.
- Excellent wetting provides thin, homogenous lubricating film to provide excellent surface finish.
- 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. It also reduces drag out rates hence lowers product consumption.

### Typical Characteristics

Description	Test Method	Unit	Value
Appearance	Visual	-	Clear, colourless liquid
Density @ 15 °C	ASTM D4052 / ISO 12185	g/ml	0.75
Viscosity @ 40 °C	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	1.04
Flash Point, PM	ASTM D93 / ISO 2719	°C	> 45

Subject to usual manufacturing tolerances.

### 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 35°C/ 45°F and 95°F

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

**This product was previously called Product D 503. The name was changed in 2015.**

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