

## Iloform™ PN 283

Chlorine Free Neat Forming Oil

### Description

Castrol Iloform™ PN 283 is a high viscosity, vegetable ester based forming oil, containing extreme pressure and lubricity additives.

### Application

Iloform PN 283 is specially formulated for deep drawing operations, but can also be used for other forming applications on steel and aluminium materials.

Iloform PN 283 is designed to be used as received.

### Advantages

- The ester base gives excellent adhesion and wetting properties to provide a homogenous highly lubricating film which results in a high quality surface finish
- Extreme pressure additive package to provide high protection against wear and to enable long tool and die life which helps to cut downtime and tooling costs
- Free from chlorine- and heavy metals (example Barium) which may help to fulfil aspects of legislative and waste treatment requirements that specify that these chemicals are excluded
- The product can easily be washed off with alkaline cleaners

### Typical Characteristics

Description	Test Method	Unit	Value
Appearance	Visual	-	Clear light yellow fluid
Density @ 15 °C	ASTM D4052	g/ml	0.98
Kinematic Viscosity @ 40 °C	ASTM D445	mm <sup>2</sup> /s	435
Flash Point, PM	ASTM D93	°C	160

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 45 °C / 41°F and 113°F.

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

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