



Iloform™ BWS 595

Soluble forming fluid

Description

Castrol Iloform™ BWS 595 is a water soluble forming fluid designed specifically for copper wire drawing. It is formulated with high performance lubricity additives, corrosion inhibitors and emulsifier system, to provide exceptional performance under extreme drawing conditions.

Iloform BWS 595 is boron, chlorine and heavy metal free.

Application

Iloform BWS 595 provides outstanding performance for the high speed drawing of copper and copper alloy wires. The product is suitable for medium and rod breakdown applications.

Conditions of Use

Concentration range - medium wire:	3 - 5%
Concentration range - rod breakdown:	8 - 12%

Advantages

- Excellent health, safety and environmental profile. Does not contain hazardous aromatic constituents, chlorinated additives, boron or heavy metals.
- Flexibility. Use at different dilutions can lead to product rationalisation.
- Contains high performance lubricity and anti wear additives. Maximises die life and provides excellent surface finish. Minimises costs associated with down time and die repolishing.
- Provides a high quality stable emulsion which maintains a high level of machine cleanliness, leading to lower machine down time and maintenance costs, and a high level of operator acceptance.
- Low foam characteristics, even at high pressures and flow rates, leads to increase production rates.
- Excellent filtering characteristics and emulsion stability extend product life and lower product consumption.

Typical Characteristics

Description	Test Method	Unit	Value
Appearance of Concentrate	Visual	-	Clear light brown fluid
Density @ 15 °C / 59 °F	ASTM D4052	g/ml	0.92
Kinematic Viscosity @ 40 °C	ASTM D445	mm ² /s	85
Appearance of Emulsion @ 10%	Visual	-	Semi-translucent to transparent
pH @ 5% dilution	ASTM E70/97	-	9.3
Copper corrosion (3 hrs @100°C / 212 °F)	ASTM D130	-	1a
Refractometer Factor	-	-	1.2

Subject to usual manufacturing tolerances.

User Advice

Iloform BWS 595 is readily dispersed in water, forming an opalescent emulsion. To manually prepare the emulsion, slowly add Iloform BWS 595 to water, stirring for a few minutes.

Using an automatic mixer, please ensure that water pressure is sufficient.

Additional Information

Additives	Ester	Active Sulphur	Inactive Sulphur	Phosphorous	Chlorine	Other
	ü					ü

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.

Iloform™ BWS 595

24 Jul 2015

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>