



Product Data

Alusol SL 61 XBB

High performance semi-synthetic metalworking fluid

Description

Castrol® Alusol® SL 61 XBB is a high performance semi-synthetic metalworking fluid formulated without boron, biocides, formaldehyde releasing agents and chlorine. It contains an additive package that may help to enhance machining performance and surface finish. It also provides excellent product stability which helps to lower overall operating costs.

Alusol SL 61 XBB is suitable for large central systems and single sump machines.

Application

Alusol SL 61 XBB is designed for the machining of aluminum alloys. The product can also be used for the machining of ferrous alloys.

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminum alloys	Magnesium alloys	Yellow metals
Grinding	-	ü	ü	ü ü	-	-
Milling, Turning (general machining)	ü	ü ü	ü ü	ü ü	-	ü
Drilling	ü	ü ü	ü	ü ü	-	ü
Reaming, Tapping	ü	ü ü	-	ü ü	-	ü
Broaching	ü	ü	-	ü ü	-	ü

ü ü suggested core application ü possible application, please consult Castrol representative prior to use

Advantages

- Extended fluid life can help to reduce maintenance and downtime
- Low foam in recommended water conditions (see details below)
- Lubrication package designed to try to help enhance tool life and improve surface finish on aluminium machining
- Good wetting properties can help to reduce coolant drag out and help deliver cleaner machine tools and components
- Formulated without boron, biocides, formaldehyde releasing agents, chlorine and nitrite which assists in complying with aspects of legislative and waste treatment requirements where these chemicals are excluded.

Typical Characteristics

	Test Method	Units	Alusol SL 61 XBB
Appearance concentrate	visual	-	Clear to Amber liquid
Specific Gravity @15°C	ASTM D 4052	g/cm ³	0.94 - 0.97
pH in DI water @ 5%	CN-TM-069	-	8.8 - 9.5
Refractometer Factor	BRIX multiplier		1.0

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	6 - 7 %
General Machining	6 - 8 %
Drilling	6 - 10 %
Reaming and Tapping	6 - 10 %
Broaching	6 - 10 %

Water range 100 – 600 ppm CaCO₃

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines	Chlorine
Additives	-	-	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 to the product safety data sheet.

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