



## Alusol™ SL 61 XBB

High performance semi-synthetic metalworking fluid

### Description

Castrol Alusol™ SL 61 XBB is a high performance semi-synthetic metalworking fluid which is boron, formaldehyde releasing agent and chlorine-free. 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 the overall operational 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 aluminium alloys. The product can also be used for the machining of ferrous alloys.

|                                      | Cast Iron | Low-medium alloyed steel | High alloyed - stainless steel | Aluminium 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
- Boron free to meet boron free waste requirements where applicable
- Chlorine, formaldehyde releasing agent and nitrite free which assists in complying with aspects of legislative requirements and waste treatment requirements where applicable

## Typical Characteristics

|                        | Test Method | Units             | Alusol SL 61 XBB      |
|------------------------|-------------|-------------------|-----------------------|
| Appearance             | CN-TM-007   | -                 | Clear to Amber liquid |
| Specific Gravity @15°C | CN-TM-084   | g/cm <sup>3</sup> | 0.94 - 0.97           |
| pH in DI water @ 5%    | CN-TM-069   | -                 | 8.8 - 9.5             |

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 CaCO<sub>3</sub>

## Concentration Control

Refractometer Factor: 1.0

To calculate the concentration of the diluted fluid, multiply the Refractometer reading by the factor to come up with the in-use concentration.

## 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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