



Product Data

Syntilo 75 EF

Synthetic Coolant

Description

Castrol Syntilo™ 75 EF is a synthetic coolant formulated without mineral oil free, boron and formaldehyde releasing agent. It is machine friendly showing excellent compatibility to paint and elastomers. It contains an additive package that provides good corrosion protection to machine tools and parts. The fluid also provides excellent product stability which helps to lower the overall operational costs.

Syntilo 75 EF is suitable for large central systems and single sump machines.

Application

Syntilo 75 EF is especially designed as a general purpose grinding and light to medium duty of cast iron and low – medium alloyed steel.

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

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

Advantages

- Extended fluid life can help to reduce maintenance and downtime
- Low foam in recommended water conditions (see details below)
- Good anti-corrosion properties to protect machine tools and parts
- 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 help you to fulfil aspects of legislative requirements and waste treatment requirements where applicable

Typical Characteristics

|                      | Test Method              | Units | Value        |
|----------------------|--------------------------|-------|--------------|
| Concentrate          |                          |       |              |
| Appearance           | Visual                   |       | Light yellow |
| Mineral oil content  | Calculated               | Wt %  | 0            |
| Emulsion             |                          |       |              |
| Appearance           | Visual                   |       | Transparent  |
| pH (5%)              | DIN 51369<br>ASTM E70-97 |       | 10.0         |
| Refractometer factor |                          |       | 2.0          |

Subject to usual manufacturing tolerances.

Recommended Concentrations

|                   |                                |
|-------------------|--------------------------------|
| Grinding:         | 5 – 6%                         |
| General Machining | 5 – 10%                        |
| Drilling          | 6 – 10%                        |
| Reaming           | 6 – 10%                        |
| Broaching         | 6 – 10%                        |
| Water range       | 50 - 600 ppm CaCO <sub>3</sub> |

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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