**STRUB Stabillo Cut FRT AI-ES**

Semi-synthetic cooling lubricant

**Art.-No. 33128**

**Description**Industry 4.0 is on everyone's lips and digitalization is in full swing. This calls for a digital lubricant, with future-oriented function as a design element. The new series of Strub Stabillo Cut is based on Future Resistant Technology (FRT). The novel technology characterizes this latest generation water-miscible cutting lubricant for tremendous performance. STRUB Stabillo Cut FRT Al-ES proves to have above-average stability and guarantees optimum cooling and lubricating effect due to its excellent wettability. Low-foaming behavior, excellent corrosion protection for workpiece, tool and machine round off the excellent properties of   
STRUB Stabillo Cut FRT Al-ES.

**Application**Specially recommended for light to heavy machining and grinding operations.

The product is suitable for machining aluminum, copper as well as cast iron, steel and steel alloys.

**Features and advantages**

* universal application
* long tool life and good surface quality
* sustainably resistant
* high emulsion stability
* low foaming
* excellent corrosion protection
* low consumption and good wash-off behavior
* good skin compatibility
* exceptional demulsifying behavior
* no residues and sticking
* free of formaldehyde and chlorine

**Mixing ratio**

|  |  |  |
| --- | --- | --- |
| **Concentration** | **Refractometer reading** | **Effective concentration** |
| Grinding | Min. 4.0 % | Min. 4.0 % |
| Turning | 5.0 % – 7.0 % | 5.0 % – 7.0 % |
| Drilling / Milling | 6.0 % – 9.0 % | 6.0 % – 9.0 % |
| Reaming | 7.0 % – 9.0 % | 7.0 % – 9.0 % |
| Thread cutting | 8.0 % – 10.0 % | 8.0 % – 10.0% |
| Sawing | 9.0 % – 10.0 % | 9.0 % – 10.0 % |
| Deep hole drilling | 9.0 % – 10.0 % | 9.0 % – 10.0 % |

**Technical data**

|  |  |
| --- | --- |
| **Concentrate**  Color  Density at 20°C  Viscosity at 20 °C  Viscosity at 40 °C  Mineral oil content  **Emulsion**  Appearance 5% in tap water  pH value 5% in tap water  Corrosion test DIN 51360-T2 - 5% in tap water  Suitable hardness of the preparation water  Factor Refractometer reading  **Do not store below 7 °C or above 40 °C**  Do not expose the container to direct sunlight.  If the cooling lubricant has nevertheless been exposed to temperatures below 7 °C or even in the freezing point range for a short time, the container should be stored at room temperature for 3 days and then the concentrate must be stirred vigorously until it is clear or homogeneous. | brownish  0.979 g/cm³  ~ 130 mm²/s  ~ 48.3 mm²/s  40%  Milky  ~ 9.3  0 / 4 Degree of corrosion  5 - 60 °dH  1.0 |

**Transport**ADR/SDR No dangerous goods

**Disposal**LVA VeVA / EAK: Concentrate 12 01 07  
 Emulsion 12 01 09