

# Synergy 735

Art.-Nr. 11735-03

## Description

Synergy 735 is a fully soluble, oil free, synthetic metalworking fluid. It is characterized by its excellent aluminium compatibility and cleanability. Therefore it meets the highest demands on surface quality and cleanliness.

## Range of application

Synergy 735 is applicable for machining of aluminium, titanium alloys, stainless steel, copper alloys and composite materials (FRP/CFRP).

### Benefits

Spotless surfaces even with sensitive aluminium alloys

Suitable for precision cleaning

Clear view of the machining process

Ideal for high-pressure systems

High surface quality and process reliability

Good human and skin compatibility

→ Neutral pH

→ Outstanding rinsing behaviour and easy cleanability

→ Crystal clear

→ Low foaming

→ Excellent filterability down to 1 micron

→ Free of bactericides

### Product properties

## Physical-chemical data

### Concentrate

### Solution

Appearance

clear

transparent

Mineral oil content [%] 0

Density at 20°C  
[g/cm<sup>3</sup>]

1.059

Viscosity at 40°C  
[mm<sup>2</sup>/s]

47

Flash point [°C]

>130

pH-value (fresh emulsion, typical value)

7.6

pH-value (in use)

7.5 - 8.2

Refractometer factor

1.5

**Blaser Swisslube AG**

CH-3415 Hasle-Rüegsau • Tel. 034 460 01 01 • Fax 034 460 01 00  
www.blaser.com

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**Safety and environmental aspects**

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Please refer to the product-specific safety data sheet (SDS) for disposal, environmental and safety information. The SDSs are available for download on our website (blaser.com).

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**Note**

The product does not contain\*:

Mineral oil, chlorine\*\*, heavy metals, boron, secondary amines, silicone, bactericide, isothiazolinone, formaldehyde depot, nitrosamines, glycol ether.

Please do not add alkaline system cleaner (Blasorun 5/Blasoclean AF) or pH stabiliser to Synergy 735. An increase of the pH reduces the lubrication and therefore the cutting performance. Do not produce parts after addition of an alkaline system cleaner.

\*The substances listed here are not part of the formula, but trace amounts of these substances may be present. / \*\*Without active addition of chlorinated EP additives.

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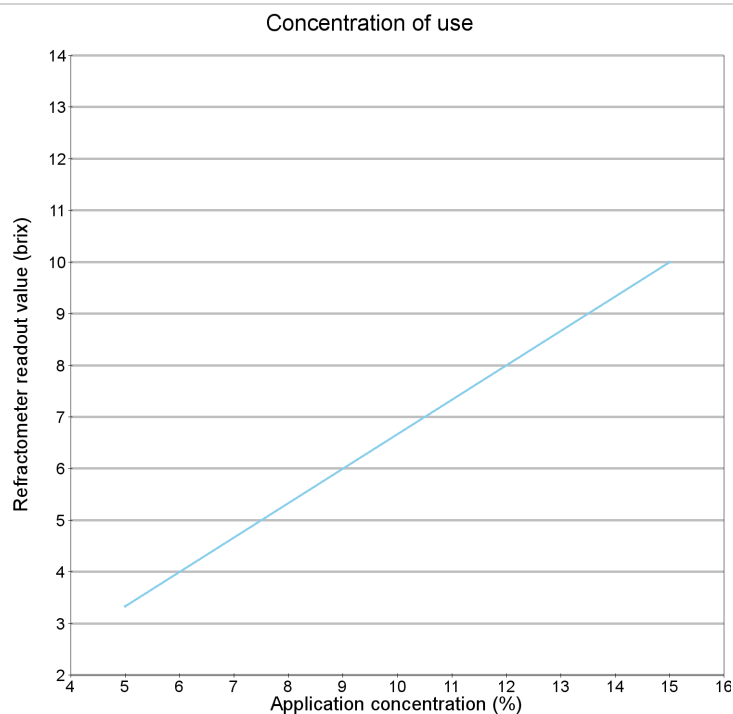
**Concentration of use**

Typically used at: 6 – 10% (refractometer reading: 4.0 – 6.6)

Variable concentrations from: 6 – 15% (refractometer reading: 4.0 – 10.0)

Product designed for use with demineralized water (DI-water, <50 µSiemens [µS]) only. The use of calcium acetate to control foaming is prohibited. If foam should appear contrary to expectations, we recommend the following antifoam product: Additive A33, Art. No. 29106

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Information contained in this data sheet is based upon the properties and applications of use as known to us. However, generally no legal liability may be deducted from such information.V1//01.07.2020 08:35:55

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