



# Technical Data Sheet

## Micron Alpha 1

### Semi-synthetic cutting fluid

#### DESCRIPTION

Micron Alpha 1 is a semi-synthetic cutting fluid with high stability, designed for excellent surface finishes on aluminium, steels, alloys and all yellow metals. It is especially applicable where water is hard or very hard. Once diluted, it disperses in nano-globules avoiding coalescence, depositions, and other imperfections of the classic emulsions. Micron Alpha 1 meets the latest technological advances in cutting solution and can save your application by high longevity in use.

Contains no secondary amines, nitrites, halogenated derivatives, or any other substance that may adversely affect both health and the environment.

#### ADVANTAGES

- Effective cooling power
- High resistance to foreign oils
- Low drag
- High emulsion stability in hard water
- High power corrosion inhibitor
- Efficient lubricator
- Prevents swarf and fines

#### PHYSICAL CHARACTERISTICS

Aspect: Clear liquid

Colour: Amber

Density: 0.99 at 20°C

pH (5%): 9

Refractive Factor: 1,81 (Reading ° Brix x 1,81 = Concentration)

#### APPLICATION

Micron Alpha 1 is dispersed in water adding the minimum of 5% concentration. The ideal concentration is determined according to the complexity of the operation and water hardness:

- Medium hardness: 6%
- Hard water: 8%
- Very hard water (> 400 ppm of CaCO<sub>3</sub>): about 10%

The fluid will generate a layer of salts in the case of working with very extra-hard waters to avoid excessive accumulation of crystals of calcium carbonate. The use of a filter of paper is recommended to remove the salts from the product.

The product will be used for machining aluminium, ferrous and yellow metals intended to minimize the drag of coolant per piece.

#### STORAGE

Store in a closed area at temperatures not below 5°C or above 40°C.

Keep the container correctly closed after used to avoid evaporation or contamination.

Life in unopened packaging: 6 months.