

SWISSCOOL 3000

Water-miscible metal working fluid

Description

SWISSCOOL 3000 is a universal high performance water-miscible, mineral oil containing metal working fluid. The SWISSCOOL 3000 is free from chlorine, active sulphur, secondary amines, boron and formaldehyde. It has a great wettability, optimum cooling and lubricating properties.

Advantages

- free from boron and formaldehyde
mild formulation
good human and skin compatibility
- good rinsing properties
clean machines
- outstanding corrosion protection
protects machines and components
- excellent biostability
the selected formulation prevents uncontrolled bi-ological growth, resulting in a long emulsion service life
- complies with current legislation
meets the requirements of TRGS 611
- Water hardness
forms stable and low-foam emulsions with preparation water from 5°dH to 30°dH

Field of application

The product is suitable for all common machining processes (turning, milling, drilling, grinding) of steel, titanium, cast iron, aluminium and non-ferrous metals. When machining exclusively copper or brass, we recommend adding a non-ferrous metal inhibitor.

Recommended concentration

General machining	6 - 8 %
Grinding	6 %

Aerospace conformities

Rolls Royce: RRP 59000 conformance
Airbus AIMS 12-10-000: ASTM F483-09 conformance (at 8%)

Shelf life/Storage conditions

12 months in a closed container at temperatures between 5 °C and 40 °C.

Technical data

Properties	Unit	Test according to	Values
Colour			light yellow
Density at 20 °C	g/ml	ASTM D4052	0.991
Viscosity at 40 °C	mm ² /s	DIN 51562-1	25
Mineral oil content	%	DIN 51561-1	13
pH value at 5% concentration		DIN 51369	~9.0
Corrosion test GG25 chips	> 6%	DIN 512360-2	0-0
Refractometer factor	% Brix		*2.0

*Example: value on refractometer 3.0 means effective concentration of 6.0%

European waste code: 12 01 09 / Water hazard class: WGK1

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