

MOTOREX SWISSCOOL TRESOR PMC 100

Water miscible high performance coolant for steel, light- and non ferrous metals. Free of chlorine, bore, bio-cides, fungicides, amines and heavy metals.
(PMC: Precious-Metal-Catalyst)

Description

MOTOREX SWISSCOOL TRESOR PMC 100 is a high-performance coolant for general-purpose use with excellent long-term biostability. An extremely low level of bacteria over the long term is not achieved by extreme chemical treatments such as bactericides, fungicides or amines but through tiny precious metal catalysts (PMC: Precious-Metal-Catalyst). The workstation at the machine benefits from good hygienic conditions and employees in production areas can be confident that the air they breathe is clean. The combination of low-aromatic, highly refined mineral base oils and innovative additives technology ensures this truly novel formulation offers high performance, which is long lasting and stable, even under extreme conditions of use. The coolant is neutral when exposed to sealing materials (commonly used elastomers) and two-coat machine paints.

Field of application

SWISSCOOL TRESOR PMC 100 provides optimum cooling and lubrication when swarf is flying in all directions. This innovative formulation, which is unique worldwide, is ideally suited for sophisticated cutting operations using all kinds of metals. The ingenious combination of base oils with excellent lubricating properties and modern EP active ingredients ensures that tools will have a long working life and produce a consistently high quality surface finish for work involving drilling, turning, milling, grinding, etc. on the latest CNC production lines or flexible individual machine tools. Shorter manufacturing times, high process stability and the extremely long service life of the coolant help to achieve substantial cost savings.

Technical data

Properties	Unit	Test according to	Values
Colour		DIN ISO 2049	brown
Density at 20 °C	g/ml	ASTM D 4052	0.946
Viscosity à 40 °C	mm ² /s	DIN 51562-1	45
Mineral oil content	%	DIN 51561-1	42
pH value concentration	5%	DIN 51369	9
Corrosion test using GG25 chips	>4%	DIN 51360-2	0
Factor hand held refractometer	% Brix		1

Water hazard class: Concentrate: WGK2, Emulsion: WGK1
Disposal code: VeVA / EWC 120107

Advantages

- High-performance water-miscible coolants for general-purpose use
- Free of bactericides and fungicides, without extreme chemical treatments
- Free of amines, boron, chlorine, zinc and heavy metals
- Novel PMC technology (PMC: Precious-Metal-Catalyst)
- Tiny particles of precious metal catalysts act as floating bacteria hunters
- Long-term sustainable biostability with no need for adjustment
- Does not irritate the skin
- Versatile to use in respect of materials, tools and processing methods
- Suitable for use with water ranging from soft to very hard
- Low foam with powerful corrosion protection
- Complies with TRGS 611 technical regulations

Application for concentration

General cutting operations	6%
Thread-cutting, reaming	8 %
Grinding	Approx. 4%

Note

When innovative products are used in modern production systems, both the manufacturer and user are exploring new territory. On the basis of the results obtained to date, it can be assumed that the product is compatible with materials currently used in the engineering industry. Depending on the process, the user and the manufacturer of the product share the responsibility for ensuring that the product is suitable for use in the manufacturing system. The "General terms of sale and delivery" of MOTOREX AG LANGENTHAL, 4900 Langenthal, Switzerland, apply.