



# SWISSCUT ORTHO NF-X

High-performance cutting oil for all types of materials

## Description

SWISSCUT ORTHO NF-X are high-performance cutting oils, which can be used to manufacture high-alloyed steels, nonferrous metals and aluminium to an optimum finish. This is a new innovation in modern manufacturing technology. It does away with the need for various costly operations such as separate production lines for assorted processing, pre-washing non-ferrous workpieces and blending different types of machining oils in the manufacturing process. These cutting oils are particularly suitable for  $v_{max}$  machining.

## Advantages

- $v_{max}$  technology
- all-purpose oil for all types of materials
- significantly extended tool life
- optimum workpiece surface finishes
- cutting data can be optimised
- very easy on the skin
- low volatility
- extremely cost-effective

## Area of applications

SWISSCUT ORTHO NF-X cutting oils were developed so that only one type of cutting oil would be needed to cover all types of materials, degrees of difficulty, etc. These universal oils are suitable for steel, cast iron, nonferrous metals, and aluminium, which are difficult to work with.

## $v_{max}$ Technology

### Increased cost-effectiveness due to:

- increased cutting speeds
- increased infeed, which results in increased output
- better finished surface quality
- optimised cutting data for all materials
- extended tool life
- based on experience and proven in practice

## Synergy Project

"Using synergies and letting them influence products to the advantage of the user," is the maxim of the MOTOREX Synergy Project. Products that are influenced by the results of existing synergies between machine and tool manufacturers, users and MOTOREX are labelled as Synergy Projects at MOTOREX.

## Typical technical data

Properties	Unit	Test according to	Values				
<b>SWISSCUT ORTHO NF-X</b>			<b>7</b>	<b>10</b>	<b>15</b>	<b>22</b>	<b>32</b>
Colour		DIN ISO 2049	yellowish	yellowish	yellowish	yellowish	yellowish
Density at 20 °C	g/ml	ASTM D 4052	0.842	0.845	0.871	0.882	0.887
Viscosity at 40 °C	mm <sup>2</sup> /s	DIN 51562-1	7.1	10	16	23	34
Flash point	°C	DIN EN ISO 2592	146	155	182	198	217
Copper corrosion		ASTM D 130	2/100A3	2/100A3	2/100A3	2/100A3	2/100A3

Water hazard class: WGK1  
Disposal code: EWC 120109

The above information is subject to change without prior notice, although they are in accordance with current standards. Performance characteristics indicated are based on usual tolerances which occur during measuring and production using the latest technology. A safety data sheet is available.

