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Spirit 5000 X





Spirit 5000 X

Biocide free*, Non-foaming micro-emulsion for machining and grinding

DESCRIPTION

Spirit 5000 X is the latest generation of 'non-foaming' 'Biocide Free*' micro-emulsion. Designed to deliver excellent performance in high pressure coolant delivery systems.

Suitable for both ferrous and non-ferrous metals for operation ranging from general to difficult machining,

Spirit 5000 X offers a complete solution for workshops with multiple metals and operation under the same roof.

Spirit 5000 X is suitable for use in machines with individual tanks and for centralized systems

Suitable with Soft (5°dH) to Hard (20°dH) water for first fill.

APPLICATION

Material	Grinding	Machining
Cast Iron	• • •	• • •
Mild Steels	• • •	• • •
Stainless Steels	• •	• •
Aluminum alloys		•
• • • Design	ed for • • Suitable	• Possible

FEATURE > BENEFIT

Excellent Detergency > Clean machines & Parts

Optimum Lubricity > Improved tool life & Finish

Remarkably low foaming > No overflow + Better tool life

Excellent Contamination resistance > High service life

Biocide-Free* > Reduced non-compliance risks

*According to Biocide Product Regulation (BPR) - Regulation 528/2012 - product type (PT13): Working or cutting fluid preservative

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com



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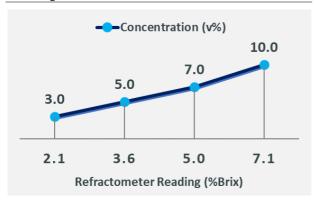
TYPICAL CHARACTERISTICS

Typical characteristics	Methods	Units	Spirit 5000 X
Density @ 15°C	ISO 12185	Kg/m ³	1025
Appearance 5 % Emulsion (in DM water)	Internal		Translucent White
pH @ 5 %	DIN 51369		9.4
Corrosion Break point	DIN 51360/2	v%	5
Refractometric Factor	Internal		1.4

The characteristics shown in this table are typical values given for illustrative purposes for EU

CONCENTRATION RECOMMENDATION

Application	Minimum	Maximum
Grinding	5 v%	7 v%
Machining	5 v%	10 v%
ERW Tube Rolling	5 v%	6 v%



STORAGE AND HANDLING

- Always wear recommend personal protective equipment while operating.
- Ensure compliance with local regulation during disposal.
- Store in covered well ventilated area, ensuring no direct contact with sunlight, rain or snow.
- Ideal storage temperature 5 °C to 40 °C.
- Shelf life: 12 months from date of manufacturing.
- For optimum performance regularly monitor and maintain concentration and pH range as recommended.

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