

METALTEC MIRACOOOL 203 SM

Product Code: SOL034 | **Revision:** 20251029



Specialised & medium-oil content semi-synthetic soluble metalworking fluid.

Available Pack Sizes



Applications

A high-performance semi-synthetic metalworking fluid with a medium-oil content and advanced chlorine-free lubricity additives to deliver excellent machining performance across a wide range of metals and applications. It is carefully formulated for use in hard water areas, providing a robust, stable coolant with exceptional service life even under demanding conditions. The formulation is free from formaldehyde, boron, chlorine and nitrites, ensuring a safer working environment and simplified waste management. It improves machine tool cleanliness, enhances surface finish and provides long fluid life to reduce machine downtime. Excellent hard water stability and low foaming in recommended water conditions, it offers effective protection for both tools and machined parts while resisting fungal and bacterial contamination. Suitable for ferrous, non-ferrous and soft metals.

Benefits

- Formaldehyde, boron, chlorine & nitrite free.
- Improves machine tool cleanliness & surface finish.
- Long fluid life reduces machine downtime.
- Low foam in recommended water conditions.
- Protects machine tools & parts.
- Resists fungal & bacterial corrosion.
- Suitable for ferrous, non-ferrous & soft metals.

Application Suitability: ✓✓✓ Best | ✓✓ Better | ✓ Good | Please contact us if unsure

	Alloyed Steel	Stainless Steel	Aluminium Alloys	Yellow Metals
Broaching	✓✓	✓✓	✓✓	✓
Drilling	✓✓	✓✓	✓✓	✓✓
General Machining	✓✓	✓✓	✓✓	✓✓
Reaming & Tapping	✓✓	✓✓	✓✓	✓✓

Typical Test Data	
Appearance (neat)	Straw/light brown liquid
Appearance (emulsion)	Semi-translucent
Corrosion Test - I.P287 (%)	2.0
pH (5%)	9.4
Refractometer Conversion Factor	1.3

Dilution Ratios	
Deep Hole Drilling	8-10%
Drilling	5-6%
Reaming	7-10%
Tapping & Threading	5-7%
Turning & Milling	5-6%
Water Hardness (CaCO ₃)	200-800ppm

The typical test data provided is taken from average values, there will be some variability in production and therefore do not constitute a specification.

Always add the oil concentrate to water to ensure proper emulsion formation. Do not add water to the concentrate, this may cause an invert emulsion.

In line with our policy of continued improvement, Aztec Oils reserve the right to change specifications and availability without prior notice. This product, used according to our recommendations and for its designed application, does not represent any particular risk. The information present in this technical data sheet is indicative of the product and is given in good faith, but should not form part of any specification.

Recommendations

- A Safety Data Sheet is available for consultation at www.aztecoils.co.uk.
- Before using the product, it is advised to consult the Metal Working Fluids section of the Government HSE website.
- Packaging should not be left exposed to elements and drums should be laid horizontally to prevent contamination.
- This product should not be stored at temperatures over 60°C, kept out of direct sunlight, protected from frost and fluctuations in temperature.
- When disposing of the product after use, please protect the environment and comply with local regulations.

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