

METALTEC MIRACOOOL 301 FS

Product Code: SOL036 | **Revision:** 20240514



A synthetic oil-free soluble metal working fluid.

Available Pack Sizes

20L

205L

Applications

A high performance, fully synthetic metalworking fluid designed for the machining of ferrous and non-ferrous alloys. The latest water-based lubricity technology provides superb machining performance even under the most arduous conditions. Replacing traditional emulsion-based technology provides a cleaner working environment and less drag out, while being carefully formulated to avoid sticky deposits. As it no longer requires large amounts of emulsifier it enables this product to be used at higher pressures with less foaming.

Benefits

- Can be used with ferrous and non-ferrous materials.
- Excellent corrosion protection.
- Fantastic hard water stability.
- Formaldehyde, chlorine, boron and nitrite free.
- Improves machine tool cleanliness.
- Long sump life, low odour.
- Very low foaming.

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

	Alloyed Steel	Stainless Steel	Aluminium Alloys	Yellow Metals
Deep Hole Drilling	✓✓	✓✓	✓✓	✓✓
General Machining	✓✓	✓✓	✓✓	✓✓
Grinding	✓✓	✓✓	✓✓	✓✓
Reaming	✓✓	✓✓	✓✓	✓✓
Tapping & Threading	✓✓	✓✓	✓✓	✓✓

Typical Test Data		Dilution Ratios	
Appearance (neat)	Colourless/yellow	Deep Hole Drilling	8-10%
Appearance (emulsion)	Colourless/translucent	Drilling	5-6%
Corrosion Test I.P.287 (%)	<3.0	Reaming	7-10%
Mineral Oil Content (wt%)	0	Tapping	5-7%
pH (5%)	9.0	Turning & Milling	5-6%
Refractive Index	1.7	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 concentrate (oil) to water to ensure that the emulsion is formed correctly. Never add water to concentrate, as this can 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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