

## METALTEC MIRACOOOL 301 FS

Product Code: SOL036 | Revision: 20251029



Fully synthetic, oil-free soluble metalworking fluid.

### Available Pack Sizes



### Applications

A high-performance, fully synthetic metalworking fluid designed for machining ferrous and non-ferrous alloys. Featuring the latest water-based lubricity technology, it delivers superb performance even under the most demanding conditions. By replacing traditional emulsion-based systems, it provides a cleaner working environment, reduces drag-out and prevents sticky deposits. With minimal emulsifier content, it can be used at higher pressures with very low foaming. The formulation offers excellent corrosion protection, outstanding hard water stability, long sump life, low odour and improved machine tool cleanliness. Free from formaldehyde, chlorine, boron and nitrites, it is suitable for a wide range of machining applications on both ferrous and non-ferrous materials.

### Benefits

- Can be used with ferrous & non-ferrous materials.
- Excellent corrosion protection.
- Fantastic hard water stability.
- Formaldehyde, chlorine, boron & 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	
Appearance (neat)	Colourless/yellow
Appearance (emulsion)	Colourless/translucent
Corrosion Test I.P.287 (%)	<3.0
Mineral Oil Content (wt%)	0
pH (5%)	9.0
Refractometer Conversion Factor	1.7

Dilution Ratios	
Deep Hole Drilling	8-10%
Drilling	5-6%
Reaming	7-10%
Tapping	5-7%
Turning & Milling	5-6%
Water Hardness (CaCO <sub>3</sub> )	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](http://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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