

Product code: 8674

Sector: Industrial

Issue No: 1

Issue Date: 22/04/26

Millcool Synth FF

Millcool Synth FF is a premium, fully synthetic water-soluble cutting fluid engineered for high-performance machining on ferrous metals and aluminium alloys. Entirely mineral oil-free, this biodegradable solution provides outstanding resistance to aluminium staining and bacterial degradation, ensuring a clear, stable operational life. It is ideal for a wide range of operations including turning, milling, sawing, and drilling, offering superior workpiece visibility and component protection in demanding multi-metal environments.

Features & Benefits

- The mineral oil-free, synthetic formulation provides a clear solution in the sump for exceptional workpiece visibility during precision machining.
- Superior biological resistance prevents unpleasant odours and slimy deposits, significantly extending fluid life and improving the workshop environment.
- Advanced corrosion inhibition protects workpieces and machine components, allowing parts to be stacked without risk of contact staining.
- Formulated without formaldehyde, nitrites, or mineral oil, this readily biodegradable fluid ensures high standards of operator safety and environmental compliance.

Material Suitability:

- Steels
- Aluminium & Aluminium Alloys
- Cast Iron

Machining Operations & Recommended Dilution Rate:

Operation	Recommended Dilution Rate
Turning, Milling & Sawing	2%
Drilling & Screw Cutting	3%

Typical Characteristics

pH Value	9.5
IP 287 Corrosion break point	2.0%
IP 125 Corrosion test	1.5%
Refractometer correction factor	1.8
Aluminium Stain Test OLOL21:	Rinsed in cold tap water, Metal surface still shiny No stains visible No organic residues