

TECHNICAL DATA SHEET



Product code: 8059

Sector: Industrial

Issue No: 1

Issue Date: 01/09/26

Millcool MP

Millcool MP is a semi-synthetic, low-foaming, formaldehyde-free metalworking fluid designed to perform across a wide range of cutting and grinding operations on multiple materials. It is effective in both hard and soft water, and its robust formulation delivers extended service life even in demanding conditions.

Features & Benefits

- Optimised lubricity and cooling properties ensure quality workpiece finish and longer tool life.
- Low-foaming formulation provides consistent lubrication and heat removal in both hard and soft water.
- Robust formulation extends sump life, resulting in economical fluid use and reduced downtime.
- Multi-metal compatibility allows product rationalisation for subcontractor flexibility, as well as simplified ordering and stock holding.
- Chlorine-free and biocide-free formulation, including freedom from formaldehyde-release biocides, ensures minimised hazard labelling for operator safety and audit compliance.

Application

Millcool MP is suited to a wide range of machine tools, including CNC machining centres, lathes and grinding machines, across multi-metal fabrication environments. Its low-foaming performance in both hard and soft water makes it a versatile, rationalised choice for subcontractors machining varied materials and running mixed-metal workshops.

Material Suitability:

- Cast Iron
- Ferrous Alloys
- Aluminium Alloys
- Yellow Metals
- Glass

Machining Operations & Recommended Dilution Rate:

Operation	Recommended Dilution Rate
Turning, Milling & Drilling	4-6%
Tapping & Threading	5-7% (cast iron, leaded steel, low carbon mild steel) 7-10% (medium carbon steels, stainless steel)
Grinding operations	3-5%

Typical Characteristics

Emulsion appearance	Translucent
pH at 5% in distilled water	9.3
IP 287 Corrosion break point	2.5%
Refractometer correction factor	1.4
Water hardness limit	100-400ppm