

# MWF-PLUS WS B-STAB 42

WATER SOLUBLE METALWORKING FLUIDS (BIOSTATIC)

322600101



## ADVANCED BIOSTABLE SEMI-SYNTHETIC METALWORKING FLUID

This high-performance, formaldehyde-free semi-synthetic metalworking fluid forms exceptionally stable micro emulsions upon mixing with water. Its meticulously engineered formulation delivers outstanding biological resistance, obviating the need for biocides or fungicides. This biostatic solution, endowed with EP (Extreme Pressure) properties, ensures prolonged operational life and minimizes maintenance expenditures. Moreover, it guarantees operator safety and provides robust protection against rust for machinery. Optimized for heavy-duty machining, this fluid is adept at handling all grades of steel, stainless steel, brass, aluminium, copper, bronze, and cast iron. Its versatility makes it ideal for both centralized systems and standalone machines. For mixing, introduce the concentrate into water at the designated ratio and stir well. Water hardness should be maintained between 50 ppm and 800 ppm with a chloride concentration below 400 ppm. Application severity dictates concentration levels: 4% to 7% for

standard operations, 7% to 10% for intense machining, and 3% to 5% for grinding processes. Concentration accuracy can be verified using a refractometer, applying the formula: % Concentration = Refractometer Reading x 1.2.

## CATEGORY

- Metalworking Fluids

## BENEFITS

- High anticorrosive properties
- Good cooling
- Excellent service life
- Environmentally acceptable
- Good EP properties
- Does not form sticky deposits on machine surface
- Economical in use
- Multi-metals
- Formaldehyde free
- Very stable on hard waters up to 800 ppm

## PROPERTY

PROPERTY	METHOD	VALUE
Neat	Appearance	Amber liquid
Neat	Density at 20 °C, kg/m <sup>3</sup>	980
Neat	Sodium Nitrate	Free
5% Emulsion tap water 150 ppm	Appearance	Amber translucent
5% Emulsion tap water 150 ppm	pH	9.5 ± 0.2
5% Emulsion tap water 150 ppm	Corrosion test IP-287	No corrosion
5% Emulsion tap water 150 ppm	Aluminium corrosion	Nil
5% Emulsion tap water 150 ppm	Copper corrosion test	Nil

All data on this technical data sheet is indicative only

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