

MWF-PLUS WS GEN-GR 12

NEO SYNTHETIC COOLANT

325302901

DYADE
LUBRICANTS



PRECISION MACHINING & GRINDING COOLANT

This product is a state-of-the-art, neo synthetic (fully-synthetic) metalworking fluid, devoid of formaldehyde, that forms highly stable and translucent emulsions upon water integration. Exclusively free from mineral oil, boron, secondary amines, chlorinated compounds, and formaldehyde, it blends the benefits of soluble and pure cutting oils, delivering unparalleled finishes in both machining and grinding operations. Its formulation is designed to repel tramp oil, ensuring clarity, while its low pH contributes to reduced skin irritation for operators. Primarily engineered for the precise machining of aluminum and its aeronautical alloys, MWF-PLUS WS GEN-GR 12 also excels in the machining of steels, alloy steels, and yellow metals under extreme conditions. The recommended concentration ranges from 6-9%, tailored to the specific operation at hand. For optimal results, integrate the concentrate into water following the recommended ratio and ensure thorough mixing. Utilizing a proportional dispenser is suggested for maintaining consistent working concentrations. The coolant is best used with water hardness below 300

ppm CaCO₃ and chloride levels under 100 ppm, at concentrations of 5-8% for general machining and 4-6% for grinding operations. Concentration levels can be conveniently verified with a refractometer, using the formula: % Concentration = Refractometer Reading x 1.2.

| STATUS | PROPERTY | VALUE |
|-------------------------------|------------------------------------|------------------------|
| Concentrate | Appearance | Clear colorless Liquid |
| Concentrate | Density @ 20 °C, kg/m ³ | 1050 |
| 5% Emulsion tap water 150 ppm | Appearance | Transparent |
| 5% Emulsion tap water 150 ppm | pH after 24h | 8.2 ± 0.2 |
| 5% Emulsion tap water 150 ppm | Corrosion test IP-125 (Herbert) | 0 |
| 5% Emulsion tap water 150 ppm | Foam | Low |
| 5% Emulsion tap water 150 ppm | Stability | Very good |

CATEGORY

- Metalworking Fluids

BENEFITS

- Extends cutting tool lifespan
- Mineral oil-free composition
- Exceptional lubricating efficacy
- Minimal foam production
- Compatible with water hardness from 0 – 800 ppm
- Efficient tramp oil rejection
- Superior performance with enhanced part surface finish
- Reduces waste accumulation on machines and parts
- Lowers cleaning expenses for both parts and machinery
- Environmentally friendly and operator safe
- Free from formaldehyde, secondary amines, chlorinated compounds, and boron

All data on this technical data sheet is indicative only

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