TECHNICAL DATA

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7072 SynCut™ SS Light-Medium

SynCut™ SS Light-Medium is a light- to medium-duty semi-synthetic coolant designed for machining and grinding applications where clean operation, cooling, and lubricity are essential.

SynCut™ SS Light-Medium is a semi-synthetic, water-dilutable metalworking coolant intended for light- to medium-duty machining and grinding operations. The product is positioned for customers seeking a clean-running, coolant that supports effective cooling, good lubricity, wetting, corrosion control, and sump stability in properly maintained systems.

KEY FEATURES AND BENEFITS

- Light- to medium-duty semi-synthetic coolant for machining and grinding.
- Designed to provide effective cooling and wetting at the tool-workpiece interface.
- Supports clean machine operation and reduced residue when properly maintained.
- Provides lubricity for common metal-removal operations.
- Helps protect workpieces, tooling, and machine surfaces from corrosion.
- Supports stable sump operation when concentration, pH, tramp oil, and contamination are controlled.
- Stable in hard water.
- Non-Chlorinated.
- Provides corrosion protection for workpieces, tooling, and machine surfaces.
- Provides short-term rust protection up to 30:1.
- Promotes excellent surface finish.
- Resists microorganism growth in properly maintained systems.
- Low foaming.

RECOMMENDED APPLICATIONS

SynCut™ SS Light-Medium is suitable for general-purpose light- to medium-duty metalworking operations where a semi-synthetic coolant is preferred over a neat oil or conventional soluble oil.

Typical Operations

- Machining
- Light Grinding
- Drilling
- Milling
- Turning
- Reaming
- Tapping and threading where operation severity is within the fluid’s capability

Compatible Work Materials

- Ferrous metals
- Cast iron
- Carbon steel
- Aluminum and common aluminum alloys, subject to plant compatibility testing
- Mixed-metal environments where concentration and maintenance practices are controlled

RECOMMENDED CONCENTRATIONS

Operation	Suggested Starting Concentration
Grinding	3% to 6%
General machining	8% to 9.5%
More severe operations	8% to 10%, based on operation requirements and field evaluation
Refractive Index Factor	1.89

Always add concentrate to water with agitation. Confirm the final operating concentration using a calibrated refractometer and the applicable product factor when available.

HANDLING, MAINTENANCE, AND SAFETY NOTES

- Consult the applicable Safety Data Sheet before storage, handling, use, or disposal.
- ***Store concentrate in closed containers under clean, dry conditions in a heated warehouse. Do not freeze.***
- Protect from contamination.
- Maintain the coolant concentration within the recommended range to support corrosion control, lubricity, biological resistance, and machining performance.
- Monitor concentration, pH, tramp oil, water hardness, microbial activity, and contamination as part of routine sump maintenance.
- Use appropriate make-up procedures and add concentrate to water, not water to concentrate.
- Dispose of used coolant and waste fluid in accordance with applicable regulations and site procedures.

TYPICAL PROPERTIES

The following values are typical for product positioning and field reference. Final specification limits should be confirmed against the approved laboratory specification before publication.

Product type	Semi-synthetic coolant
Appearance	Light amber to clear concentrate
Emulsion appearance	Translucent to light emulsion, depending on water quality and concentration
Operating pH	PH at 10% (STL. Tap Water) 9.5 ***Maintain 8.9 to 9.5 PH Range***
Use condition	Dilute with water before use