SPINTA METALWORKING SD

Product Code: SP-IN-METAL-SD

Semisynthetic Inhibited Lubricating Coolant

PRODUCT DESCRIPTION

SPINTA METALWORKING SD is a semisynthetic inhibited lubricating coolant based on severely refined paraffinic mineral oil with bactericides, corrosion inhibitors and emulsifiers. When diluted with water it forms a stable opalescent emulsion with good hard-water stability, bio-stability and fungal resistance for machining ferrous and non-ferrous metals and cast iron. Chlorine-free.

APPLICATIONS & BENEFITS

Water Miscibility Formulated for effective mixing with water and stable emulsion formation.
Corrosion Protection Corrosion inhibitors protect machine tools and machined components against rust and staining.
Bacterial Control Bactericidal action helps control microbial growth, odors and premature emulsion degradation.

KEY PERFORMANCE BENEFITS

Hard-Water Stability The diluted emulsion remains stable even in hard water.
Machining Versatility Suitable for grinding, turning, milling, drilling, tapping, threading and sawing.
Chlorine-Free Formulation Source TDS confirms absence of chlorine.

SPECIFICATIONS & PERFORMANCE LEVELS

Meets or exceeds the following specifications and performance levels; application statements as indicated:

- Recommended dilution - Grinding: 2.0-3.0%
- Turning / Milling: 2.5-4.0%
- Drilling: 3.5-5.0%
- Tapping / Threading: 3.5-5.0%
- Sawing: 5.0-8.0%

Recommendation: Prepare the emulsion at the dilution required by the machining operation and water conditions. Always add concentrate according to the plant's coolant-mixing procedure and monitor concentration, pH and hygiene during service.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Property	Test Method	Typical Value
Appearance	Visual	Uniform liquid
Density @ 15°C, kg/dm³	ASTM D 4052	1.040
Refractometric Factor	-	1.45
Chlorine, % wt	-	Absent
pH (3% in water)	ASTM D 1287	9.4
Anti-Rust Power (5% emulsion)	DIN 51360	Exceeds

Note: The values shown above are typical for normal production and may vary within normal manufacturing tolerances. They do not constitute a product specification or contractual limit.

STORAGE, HEALTH & ENVIRONMENT

STORAGE

Store under cover whenever possible. If outdoor storage cannot be avoided, containers should be protected from rain and water infiltration. Avoid temperatures above 60°C, direct sunlight and freezing conditions.

HEALTH & SAFETY

When properly used and handled in accordance with standard personal hygiene practices, the product is not expected to present adverse health effects under normal conditions of use. Refer to the corresponding SPINTA Safety Data Sheet (SDS) for detailed precautions and first-aid information.

ENVIRONMENT

Do not discharge new or used product into drains, sewage systems, soil or watercourses. Used product must be collected and delivered to an authorized collection or disposal facility in accordance with applicable regulations.

ADDITIONAL INFORMATION

Safety Data Sheet (SDS): The corresponding SPINTA Safety Data Sheet is available separately and should be consulted before handling or using the product.
Technical Service: SPINTA ITALIA S.r.l. | Viale C. Battisti 15, 27100 Pavia (PV) - Italy | info@spinta-lub.it | www.spinta-lub.it