

SmoothKut SS 4500

Emulsifiable Semi Synthetic Coolant



DESCRIPTION

SmoothKut SS 4500 is a highly cost-effective water miscible metal working fluid for various machining and grinding operations.

YOUR BENEFITS

- ✔ Good emulsion foaming ability.
- ✔ Good rust and corrosion protection under hard water conditions.
- ✔ Good foam control.
- ✔ Efficient tramp oil rejection.
- ✔ No scum or sludge residue formation.
- ✔ Highly economical.
- ✔ Good surface finish and tool life.
- ✔ HSE Compliant product free of heavy metals.

APPLICATION

- ✔ General cutting operations
- ✔ Most suitable for Sawing, Turning, Drilling, and Grinding operations.

MATERIAL COMPATIBILITY

- ✔ Mild Steel, Stainless Steel, Low-medium- High Tensile Steel.
- ✔ Ferrous metals and ferrous alloys

RECOMMENDED CONCENTRATION

- ✔ General Machining: 5-7%
- ✔ Grinding: 3-5%

MATERIAL COMPATIBILITY

- ✔ Ferrous alloys,
- ✔ Aluminum alloys,
- ✔ Copper and yellow metal alloys.
- ✔ Oil-resistant plastics and other non-metallic materials.

SmoothKut SS 4500

Emulsifiable Semi Synthetic Coolant



INSTRUCTIONS FOR USE:

- Product designed for low and high-pressure CNC systems.
- Most suitable for RO water to 1000 ppm hardness water of calcium carbonates.
- Sump should be thoroughly cleaned before charging preferably using our system cleaner package.
- Concentration and pH levels should be checked periodically and maintained
- Recommended to add oil to water and not vice versa. Do not add oil directly to the sump. Make emulsion before adding.
- Recommended chloride level <30 ppm in water.
- For additional information refer Coolant Management Guidelines available with Molygraph® Regional Application/Service Engineers.

CHARACTERISTICS	TEST METHOD	UNIT	TECHNICAL VALUES
Concentrate Parameters:			
Appearance	Visual	–	Clear Yellow liquid
Density @29.5°C	ASTM D 1298	gms/cc	1.00 ± 0.05
Solution Parameters:			
Emulsion type	Visual	-	Translucent to cloudy (Milky on usage)
Emulsion stability test (5% in deionized water)	CTM 88	-	Stable
pH (5% in deionized water)	ASTM D 1287	-	9.5 ± 0.5
Foam Depression (5% in deionized Water)	IP 312/74	Secs	< 20
Cast Iron Corrosion Protection	IP 287	%	5 % BP
Refractometer Reading (1:20)	CTM 65	% Brix	2.4 ± 0.2
R. I. Factor	ASTM D 1218	-	2.0

INDUSTRY:

Metal Cutting & Forming

PACK SIZE:

30 Ltrs. / 210 Ltrs.

SHELF LIFE:

12 Months

*CTM: - Corporate Test Method

The values quoted above are typical and do not constitute a specification.

Marginal variation in shade can be expected from batch to batch. The color has no effect on the lubricating properties of the product. MSDS available on request. Due to continual upgradation of products above data is subject to change without notice. This supersedes our previously issued data sheets.

Information and data given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of a product for a particular use is beyond our control; all risks of use of the product are assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE.

