

Harkool SSM

Product Datasheet

Description

Harkool SSM is an excellent cutting fluid designed for multi-metal operation where clarity, foam control is challenge. It forms a translucent, clear solution when mixed with water. It is free from chlorides, nitrites, phenols, and formaldehyde. This synergy of chemistry offers superior lubricity, cleaning action, corrosion protection and microbial resistance.

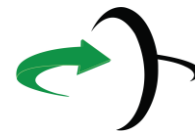
Typical Characteristics

Properties	Results
Appearance	Amber Liquid
Specific gravity @ 29.5°C	0.94
pH of 5% in DI Water	9.2
Emulsion stability 1:20 solution in DM & 400 ppm Hard water	Stable

Features & Benefits

	Features	Benefits
Performance	<ul style="list-style-type: none"> High Lubricity Most Efficient Less heat generation due to low friction Highly stable long solution life Noncorrosive Multi-machine, Multi-application (Ferrous and Aluminium) Cleans as it machines 	<ul style="list-style-type: none"> Longer tool life, Faster cut speeds, reduced drag out Lower energy/power consumption superior surface finish, Tighter tolerances Less consumption, less downtime capital equipment longevity Reduce operational complexity Reduce manufacturing steps
Safety	<ul style="list-style-type: none"> Safe, Non-Toxic, oil-free Does not support microbial growth No odours/fumes No smoking/Non-flammable 	<ul style="list-style-type: none"> Better indoor quality Better work environment Does not cause dermatitis or respiratory illness No fire hazard

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Harkool SSM

Application

	Aluminium	Steel	Stainless steel	Cast Iron	Composites
Drilling	✓	✓	✓	✓	✓
Milling	✓	✓	✓	✓	✓
Reaming	✓	✓	✓	✓	✓
Boring	✓	✓	✓	✓	✓
Turning	✓	✓	✓	✓	✓
Honing	✓	✓	✓	✓	✓
Broaching	✓	✓	✓	✓	✓
Tapping	✓	✓	✓	✓	✓
Sawing	✓	✓	✓	✓	✓
Grinding	✓	✓	✓	✓	✓

Operating Conditions

Temperature	Ambient
Concentration	4 to 12%*
pH @ 29.5°C	9 - 10
Water TDS	0- 800 ppm

*Vary for different operations

Solubility: When mixed with water, it forms a translucent emulsion.

Storage: Store at (34 to 122°F/1 to 50°C) dry place and away from sunlight in original packaging for up to 1 years from the date of shipment.

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