

Description

This unique Synthetic technology offers superior performance while assuring environmental and worker safety. The interaction and synergy of this chemistry creates superior lubricity, heat dissipation (cooling), cleaning action, corrosion and microbial life protection. The combination of these features provides benefits such as improved productivity, tool life, surface finishes and sump/system life.

Typical Characteristics

Properties	Results	Method
Appearance	Clear Yellow Liquid	Visual
Density @ 29.5°C, g/ml	1.010	ASTM D 1298
pH of 5% in DI Water	9.7	ASTM E70
Mineral oil content	Nil	Calculated
5% Emulsion in DI Water	Translucent	Visual
Refractometer Factor	2.3	-

Features & Benefits

Features		Benefits
Performance	High Lubricity	Longer tool life by 20 % , 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
	Most Efficient	
	Less heat generation due to low friction(ΔT min 2)	
	Highly stable long solution life	
	Non corrosive	
	Multi-machine,multi-application	
Safety	Cleans as it machines	Better indoor quality Better work environment Does not cause dermatitis or respiratory illness
	Safe, Non-Toxic, oil-free	
	Does not support microbial growth	
	No odours/fumes	
	No smoking/Non-flammable	

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Harita-NTI Ltd

HarKool – S100

Application

	Aluminium	Steel	Stainless steel	Cast Iron	Speciality Alloys (Inconel, Titanium, etc)	Composites
Drilling	✓	✓	✓	✓	✓	✓
Milling	✓	✓	✓	✓	✓	✓
Reaming	✓	✓	✓	✓	✓	✓
Boring	✓	✓	✓	✓	✓	✓
Turning	✓	✓	✓	✓	✓	✓
Honing	✓	✓	✓	✓	✓	✓
Broaching	✓	✓	✓	✓	✓	✓
Tapping	✓	✓	✓	✓	✓	✓
Sawing	✓	✓	✓	✓	✓	✓
Grinding	✓	✓	✓	✓	✓	✓

Operating Conditions

Temperature	Ambient
Concentration	3 to 20%*
pH @ 29.5°C	9.5 to 10.5
Water TDS	0- 800 ppm

*Vary for different applications

Solubility

When mixed with water, it forms a translucent emulsion that provides excellent cooling, lubricity and corrosion protection.

Storage

Store in (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

Safety & Warning: Review Material Safety Data Sheet for appropriate health and safety warnings before use.

Spillage : Flush with water. Clean and dispose of in accordance with federal, state or local regulations.

Contact Us



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