



HNTI Limited

HarKool – S100

Product Datasheet

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. 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	1.0	ASTM D 1298
pH of 5% in DI Water	9.77	ASTM E70
Mineral oil content	Nil	Calculated
5% Emulsion in DI Water	Translucent	Visual
Refractometer Factor	1.9	-

Features & Benefits

Features		Benefits
Performance	High Lubricity	Longer tool life by 20 %, Faster cut speeds, Reduced drag out
	Most Efficient	Lower energy/power consumption
	Less heat generation due to low friction	superior surface finish, Tighter tolerances
	Highly stable long solution life	Less consumption, less downtime
	Noncorrosive	capital equipment longevity
	Multi-machine, multi-application	Reduce operational complexity
	Cleans as it machines	Reduce manufacturing steps
Safety	Safe, Non-Toxic, oil-free	Better indoor quality
	Does not support microbial growth	Better work environment
	No odours/fumes	Does not cause dermatitis or respiratory illness
	No smoking/Non-flammable	

Disclaimer: We cannot anticipate or control the many conditions under which the information and the product may be used. Hence, we make no warranty, express or implied, as to the effects of use (including but not limited to damage or injury) or the results to be obtained, whether or not used in accordance with the directions. The information furnished is believed to be accurate to the best of our knowledge. Harita-NTI is not liable for any loss, damage, incidental or consequential. Buyer assumes all responsibility in use, storage and handling of this product.



HNTI Limited

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	☹	✓	✓	✓	☹	☹

☹- check for compatibility before use; ✓ - highly recommended

Operating Conditions

Temperature	Ambient
Concentration	4 to 20%*
pH @ 29.5°C	9.0 to 10.0
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.

Disclaimer: We cannot anticipate or control the many conditions under which the information and the product may be used. Hence, we make no warranty, express or implied, as to the effects of use (including but not limited to damage or injury) or the results to be obtained, whether or not used in accordance with the directions. The information furnished is believed to be accurate to the best of our knowledge. Harita-NTI is not liable for any loss, damage, incidental or consequential. Buyer assumes all responsibility in use, storage and handling of this product.