

FRIGOMET HM 442

Oil free product for the grinding of carbide

Inhibits Cobalt Leaching

Makes for a safer environment for employees

Excellent Flushing Behavior

Decreases loading of wheel, moves swarf easier and increases cooling

Oil Free Product

Increases flushing and cooling

Low Foaming

Even in soft and deionized water

Transparent

Allows for visual inspection during process

Excellent Corrosion Protection

Protects against corrosion even in harsh conditions

Chlorine Free

Creating a safer work environment

Extended Sump Life

Good protection against bacteria and fungus

Description

FRIGOMET HM 442 is a transparent high performance product free of oil for the grinding and drilling operations on carbide. It's excellent flushing and wetting performance provides a highly efficient removal of chips and swarf. The oil free formula also creates a translucent fluid, making visual inspection of the process and the part while machining easy.

The product is also suitable for grinding and light machining operations on steel, cast iron and aluminum where flushing, cooling and cleanliness are paramount.

The ability of the FRIGOMET HM 442 to inhibit the leaching of cobalt in the machining of carbide makes it a great choice for

machine shops doing work with this material. Keeping the cobalt from leaching out into the water makes for a safer environment for the employees. Inhibiting the cobalt leaching also will increase sump life as it reduces the typical purple staining that normally comes with the machining of carbide based materials.

Switching to the powerful combination of FRIGOMET HM 442 and Oemeta's technical support program will significantly improve your productivity and reduce your costs.

Oemeta - metalworking coolants from specialists for specialists.

Application Chart

Materials	Process				
	Conventional Grinding	Creep Feed Grinding	Turning	Milling	Drilling
Aluminum	+	+	+	+	+
Cast Iron	++	++	+	+	+
Ceramics	++	++	+	+	+
Composites	+	+	+	+	+
Carbide	+++	+++	++	++	++
Inconel	+	+	-	-	-
Plastic	+	+	+	+	+
Steel	++	++	+	+	+
Stainless Steel	++	++	-	-	-
Titanium	++	++	-	-	-
Yellow Metal	+	+	+	+	+

4-5%	5-6%	6-8%	Not Recommended: -	OK: +	Good: ++	Great: +++
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Test Strip Chart

FRIGOMET HM 442 Refract Index: 1.3 Refractometer readings only give proper results with fresh emulsions. Contamination with tramp oil, particles and other substances distort the reading on emulsions in use. Test strip readings used with refractometer readings however can help determine contamination levels.	Test Strip Colors						
		1.4%	2.8%	4.4%	5.6%	7.0%	10.0%
		Too Low	Too Low	Too Low	Low	Good	High