

BIOCOOL-100 is high performance environment- friendly, long life semisynthetic metal working fluid, suitable for all moderate machining and grinding operations on all ferrous and its alloy metals. Formulated with high performance extreme pressure additives, corrosion inhibitor package and biocides, BIO COOL -100 is designed to give good sump life with better tool life.



Features and benefits

- No hazardous materials like Chromates, nitrites, phosphates, sulphates and free chlorine.
- Corrosion inhibitor package protects the job and machine from rusting.
- Reduces wheel loading and dressing frequency
- Reduces machine down time.
- Reduces disposal and labor costs

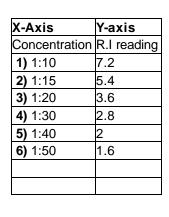
Directions for use

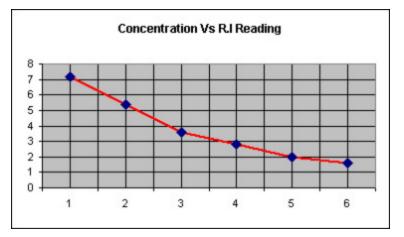
BIO COOL- 100 should be diluted with water in the range of 10:1 to 60:1 depending upon the severity of the operation, work piece material and water hardness. The following practices help in achieving the full benefits of the product.

- Always add oil to water and never the other way.
- Usage of low hardness (< 100 PPM), Low chlorides (< 30 PPM) water.
- Never add product directly to the sump. Add in the emulsion form.
- Always clean the sump thoroughly before a fresh charge.

Typical properties

Attributes		Ref. Method			Specifications
Appearance		Visual		Pale yellow thick liquid	
Odor				Mild odor	
Specific gravity @ 27 Deg C		ASTM D 1298		0.98+/-0.01	
Viscosity @ 37.8 Deg C		ASTM D 445		120 +/- 10 CST	
Emulsion type		Visual		Translucent	
Emulsion stability test 5% in 400 ppm hard water		Internal		To pass	
PH of 5% solution		Internal		9.7 – 10.5	
Foam depression in secs 5% in D.M Water		IP 312/74		20 secs	
Cast iron corrosion test 3% in 200 ppm		IP 287		Less than 1%	
Refractometer reading (1: 20)		Internal		3. 6 +/- 0.2.0	
Oil content					30 % Maximum
HMIS Rating					
Health: 1		Reactivity: 1		Flammability:0	
Metal Compatibility		Operation			Concentration
Ferrous	Yes		Drilling	1:15	5
Aluminum	Yes		Broaching	1:10	
Brass/Copper	Yes	Grinding		1: 25	
Titanium	No	Tapping		1:10	
Magnesium	No	Milling		1:25	5
			Boring	1:15	5





Pack size: Available in 20 & 205 liter drums Note: Fore more details on storage and disposal please refer to material safety data sheet

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