

### BIOCOOL 100 P

### Technical Data Sheet

**Biocool 100P** is high performance environment- friendly, long life semi-synthetic 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 -100P is designed with high base oil contents to have good lubricity, residual oil on machine beds and quick separation of tramp oil in coolant tanks.



#### 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 P** 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.

#### Material Compatibility:

- Recommended for ferrous metals & ferrous alloys.



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Corporate Identity Number (CIN) : U32301HR1979PTC038643

Speciality Chemicals & Lubricants Manufacturers

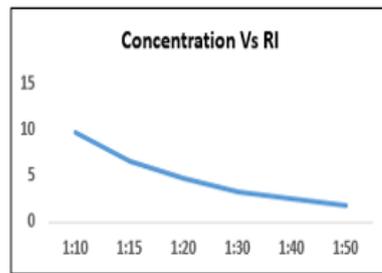
## Typical properties:

Attributes	Ref. Method	Specifications
Appearance*	Visual	Yellow to slight amber liquid
Odor	Olfactory	Mild odor
Specific gravity @ 27 °C	ASTM D 1298	0.98±0.02
Emulsion type	Visual	Thin White Emulsion
Emulsion stability test 5% in 400 ppm hard water	Internal	No oil separation & cream particles
pH of 5% solution	Internal	9.0 – 10.0
Foam depression in secs 5% in D.M Water	IP 312	20 secs max
Refractometer factor	Internal	1.05
Oil content (min)	Internal	50% min.

- Technical data details should be considered representative or typical values only and should not be used for specification purposes.

**Note\*:** Changes in the appearance of the product have no detrimental effect on the Quality /Performance of the product.

Axis	Y-axis
Concentration	R.I reading(±0.2)
1:10	9.6
1:15	6.4
1:20	4.8
1:30	3.2
1:40	2.4
1:50	1.9



Operation	Concentration
Drilling	1:15
Broaching	1:10
Grinding	1:25
Tapping	1:10
Milling	1:25
Boring	1:15

Note: It is strongly recommended that, initial coolant charging should be done at higher concentrations for optimum coolant performance.

**Packaging Details:** Available in 20 & 205-liter drums.

**Storage Recommendations:** Coolant tends to freeze at low temperatures. If frozen warm up completely and stir thoroughly before use. Inside storage is recommended and it should be stored out of direct sunlight in temperatures between 5°C-40°C. To avoid the cross contamination, always close the barrel/pail properly after usage.

**Shelf Life:** 12 Months

**Safety Recommendations:** For information on safety and disposal details, refer to safety data sheet.

**Disclaimer:** Information contained in this data sheet is based upon the properties and applications of use known to us. However, generally no legal liability may be deducted from such information.



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