



BIOCOOL AS2

Technical Data Sheet

Biocool AS2 is economical and environment- friendly, long life water-soluble oil, suitable for all moderate machining and grinding operations on all ferrous and non-ferrous metals except titanium and magnesium. Formulated with refined naphthenic base oil, natural emulsifiers, corrosion inhibitor package and biocides.



Features and benefits:

- Good aroma and user friendly.
- Reduces wheel loading and dressing frequency
- Reduces machine down time.
- Reduces disposal and labour costs
- Good sump life

Directions for use:

Biocool AS-2 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 helps 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 alloys, Aluminum alloys and copper alloys.

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 312/74	20 secs max
Refractometer factor	Internal	1.00
Oil content	Internal	48 % 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.

Metal	Compatibility		
Ferrous	Yes	RI Reading (±0.2)	
Aluminum	Yes	20	
Brass/Copper	Yes	10	
Magnesium	No	0	
Titanium	No	1:10 1:20 1:40 1:80	
Operation	Concentration	Concentration RI Reading (±0.2)	
Drilling	01:15	01:10 10.3	
Broaching	01:10	01:20 5.2	
Tapping	01:10	01:40 2.6	
Milling	01:25	1:80 1.2	

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.



ITW India Private Limited, Plot No. 34 to 37, Phase-2, IDA, TSIIC, Pashammylaram, Sangareddy Dist. -502 307, Telangana State., India. Telephone: +91 - 8455 - 224700, 01, 03, 04, 06, 07, 08. Facsimile: +91 - 8455 - 224705. Website: www.itwchemin.com

Regd. Office: ITW India Private Limited, Level 1, Lotus Plaza, 732/1, Mehrauli Gurgaon Road, Sector-14, Gurgaon - 122 001, Haryana, India. Telephone: +91 - 124 - 4284381, Facsimile: +91 - 124 - 4284389, E-mail: infoindia@itw.com

Corporate Identity Number (CIN) : U32301HR1979PTC038643

Speciality Chemicals & Lubricants Manufacturers

Rev on: Oct'19; Ver #: 05