

Product Description

Semi-Synthetic EP is a heavy duty, high EP, Semi-Synthetic Fluid which forms a highly stable, clear micro emulsion when mixed with water.

Product Features & Benefits

Semi-Synthetic EP is formulated from the latest micro emulsion technology and specialized, high performance extreme pressure (EP) additives. **Semi-Synthetic EP** contains emulsifiers, corrosion inhibitors, and extreme pressure lubricants. It can be used on a range of metal types inclusive of yellow metals. It contains a very effective biocide package which protects the in-use micro emulsion from both bacteria and fungus. **Semi-Synthetic EP provides excellent emulsion stability in hard water up to 400ppm (expressed as calcium carbonate).**

Semi-Synthetic EP:

- Has excellent wetting and cooling characteristics
- Maximises tool life and provides an excellent surface finish
- Contains a fungicide and biocide to reduce spoilage and odours
- Good corrosion inhibition to maintain a rust free environment for machine tools and finished parts
- Does not contain any chlorine, nitrites, phenols or active sulphur

Additional Information

Semi-Synthetic EP is a concentrate and must be mixed with water for use. To mix add the Semi-Synthetic EP concentrate to water with mixing to form a stable clear micro emulsion. The dilute working solution should contain between 5 and 10% of the concentrate depending on the severity of the operation to be performed. Please review the table below for the type of operation and metal type.

Typical Characteristics

| | | | |
|---------------------------|----------------------------|--------------------------------|------|
| Appearance of Concentrate | Clear Brown Liquid | Density @ 20 °C of concentrate | 1.00 |
| 5% Emulsion Appearance | Transparent micro emulsion | RI Factor | 2.68 |

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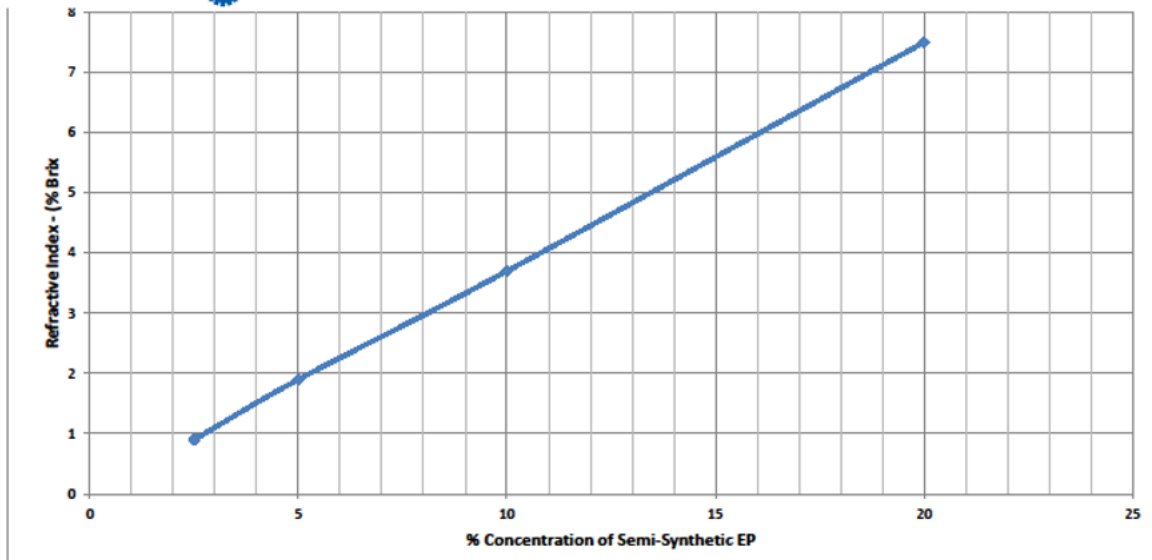
Recommended Dilutions for Specified Applications

| | Ferrous | Non-Ferrous | Alloy |
|---|----------------|--------------------|--------------|
| Trapping | 5% to 7% | 5% to 7% | 5% to 7% |
| Broaching/Gear Hobbing | 5% to 7% | 5% to 7% | 5% to 7% |
| Threading | 5% to 7% | 5% to 7% | 5% to 7% |
| Deep Hole Drilling/ Gun Drilling | 5% to 7% | 5% to 7% | 5% to 7% |
| Stamping | 5% to 10% | 5% to 10% | |
| Grinding | 3% to 5% | 3% to 5% | |
| Sawing | 5% to 7% | 5% to 7% | |
| Milling | 5% to 7% | 5% to 7% | |
| Reaming | 5% to 7% | 5% to 7% | |
| Turning /Boring | 5% to 7% | 5% to 7% | |
| Drilling | 5% to 7% | 5% to 7% | |
| Screw Machining | 5% to 7% | 5% to 7% | |

Technical Data Sheet



Semi-Synthetic Cutting Fluid EP - RI v %Conc



Master Item# 2604
 Pack Size Availability: 20L, 200L, IBC=1000L

Last Updated: 15th March 2021