



Polartech® 8121 Combined Emulsifier and Corrosion Inhibitor Package

Boron Technology Emulsifier Package

Application

Polartech® 8121 is a cost effective package capable of producing long service life fluids, utilising the highest quality additives to obtain stability in the concentrate and finished blends.

Typical applications include:

- Low oil semi synthetic watermix metalworking fluids

Typical Characteristics

| | |
|---------------------------|-------------------|
| Appearance: | Amber green fluid |
| Specific Gravity at 20°C: | 1.02 |
| Boron Content, wt %: | 1.0 |

Stability

| | |
|-------------------|--------------|
| Stability at 0°C: | Stable fluid |
| Stability at 40°C | Stable fluid |

Key Performance Benefits

- Excellent emulsification
- Anionic and nonionic surfactant system
- Excellent corrosion inhibition
- Provides stable concentrates
- Inherently stable emulsions
- Versatile for combining with performance additives
- Cost effective
- Simplified fluid production

Blending Advice:

1. The ideal blending temperature is between 20°C and 30°C
2. Polartech® 8121 should be added to the blending vessel
3. The good quality water should be added slowly with gentle agitation
4. Add the other additives if required, continuing the gentle agitation

Basic Blend Ratios

| | |
|---------------------|----|
| Polartech® 8121, %: | 50 |
| Soft water, %: | 50 |

Storage

Store inside warehouse, ideally between 10°C and 30°C
Shelf life of 12 months from date of manufacture
Store out of direct sunlight
Avoid water collecting on barrel top

