

| Product | Type |
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EZ-MULZ™ 5900
Metal Processing
Hybrid Emulsifier Base for Paraffinic Oil
Application

EZ-Mulz 5900 is an emulsifier base designed to emulsify paraffinic oils with high aniline points. This product can also be used for naphthenic oils with minor adjustments for the HLB.

The primary emulsifying components are a blend of natural sodium sulfonate for initial emulsion formation (bloom) and PIBSA for longer term emulsion stability.

EZ-Mulz 5900 is free from chlorine, nitrites, phenols and heavy metals.

Typical Properties

| Test | Typical |
|----------------------------|---------------------------|
| Appearance | Dark brown, viscous fluid |
| Specific gravity at 25° C | 1.01 |
| Water wt. % | 6.0 |
| Total acid value, mg KOH/g | 25 |
| pH at 1.0% in water | 8.5 |

Benefits

- Excellent emulsion stability in all paraffinic oils
- Good corrosion protection in for ferrous metals
- Adds lubricity
- Compatible with extreme pressure additives such as chlorinated or sulfurized compounds

Performance

Corrosion on cast iron ships – ASTM D-4627-92
 Ratings scale: 0 = no rust and 5 = 100% rust

5% emulsion of 15% EZ-Mulz 5900 in oil.....0

Typical Applications

EZ-Mulz 5900 can be used in several metalworking applications. For example:

Use the following as a guideline, balance formula as needed

General-purpose soluble oil

% by weight

| | |
|--|---------|
| 150 SUS paraffinic oil | 65 - 85 |
| EZ-Mulz 5900 | 15 – 25 |
| Chlorinated additive (Extreme pressure agent)..... | 0 - 20 |
| Biocide | 0 – 3 |
| Fungicide | 0 – 1 |
| Defoamer, if necessary | 0 – 1 |

Adding some biocides may require the addition of tall oil fatty acid to balance the formula.

Storage and Handling

| | |
|--|------------|
| Recommended Maximum Long Term Storage Temperature* | Ambient |
| Flash Point | >150°C COC |

*Do not store with excessive heat (>150° F) over long periods.



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