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## MILES BioSyn FR

### Fire Resistant Biodegradable Hydraulic Fluid

MILES BioSyn FR is formulated to offer superior fire resistance and enhanced lubrication and protection. Unlike most water soluble glycol based formulations, MILES BioSyn FR is far easier to maintain, has an exceptionally long fluid life, and, offers superior pump protection. It is non-toxic and non-hazardous, and its exceptional oxidative stability, corrosion resistance, and anti-wear properties make it particularly well suited for applications where other fire resistant fluid technologies are restricted.

#### ATTRIBUTES

- Very high flash point
- Superior pump protection
- Excellent protection against wear, rust and corrosion
- Excellent demulsibility
- Excellent oxidative stability
- High viscosity index
- Non-Toxic / Non-Hazardous

#### TYPICAL PROPERTIES

| Lubrication Properties            | BioSyn FR-32 | BioSyn FR-46 | BioSyn FR-68 | BioSyn FR-100 |
|-----------------------------------|--------------|--------------|--------------|---------------|
| Viscosity Index                   | 126          | 123          | 121          | 114           |
| Viscosity cSt @ 40 °C (D445)      | 38.6         | 49.8         | 69.9         | 100.0         |
| Viscosity cSt @ 100 °C (D445)     | 6.6          | 7.8          | 7.8          | 12.2          |
| Flash Point °F (D92)              | 471          | 479          | 505          | 508           |
| Auto Ignition Point °F            | 745          | 755          | 755          | 758           |
| Pour Point °F (D97)               | -50          | -45          | -42          | -39           |
| Four Ball, 40 Kq, 1200 RPM, 167°F |              |              |              |               |
| 1 Hr, Scar Dia mm                 | .40          | .40          | .40          | .40           |
| Copper Corrosion (D130)           | 1a           | 1a           | 1a           | 1a            |
| Rust Test (D665)                  | Pass         | Pass         | Pass         | Pass          |
| Pump Wear Test (Vickers mg)       | 15           | 15           | 15           | 15            |
| Denison                           | Meets        | Meets        | Meets        | Meets         |
| Demulsibility, 130 °F, 30 min     | 40/38/2      | 40/38/2      | 40/38/2      | 40/38/2       |