

## POWEROIL SAFEFLUID SE 46 & 68 FIRE RESISTANT HYDRAULIC FLUID (HFDU TYPE)

**POWEROIL SAFEFLUID SE** hydraulic fluids are based on high quality synthetic organic esters and select additives. They replace anti-wear mineral oil fluids when fire hazards exist and in environmental sensitive applications.

They can help achieve ISO 14001 standards / comply with legal and tax advantage programs. They offer lubrication levels of premium anti-wear hydraulic oils and can be used with hydraulic components from all major manufacturers.

**PERFORMANCE STANDARDS:** POWEROIL SAFEFLUID SE range meet the approval evaluation criteria of the following manufacturers:

- Bosch Rexroth
- Eaton-Vickers
- Hitachi Construction
- Rollstar
- IS : 7895-1975 for various fire resistant tests.
- David Brown
- Textron Transmission
- Komatsu
- Mitsubishi

CHARACTERISTICS	POWEROIL SAFEFLUID SE	
	46	68
ISO Viscosity Grade	46	68
Kinematic viscosity @ 40°C cSt	45	67
Kinematic viscosity @ 100°C cSt	9.0	12.4
Viscosity Index	185	185
Flash point, °C	280	280
Pour Point, °C	-30	-30
Density 15 °C	0.925	0.930
Foam Test 25 °C ml/ml	0 / 0	0 / 0
FZG Gear Pass Load Stage	12	12

The above properties are typical values and do not constitute specification of the product

### APPLICATION:

- They are suitable for use in hydraulic and power transmission systems with non-EP conditions. They are Compatible with seal materials and paints normally specified for use with mineral oil fluids.

**PERFORMANCE BENEFITS:**

- High ignition temperatures and low heat release, properties that limit the spread of fire.
- Fully biodegradable (OECD 301B)
- Meet requirements of DIN 51524 part 3 and ISO 15380
- High oxidation stability (IP 48)
- Compatible and miscible with nearly all mineral oil and polyol-ester based hydraulic fluids, but **NOT compatible with water base fluids.**