



FIRE-RESISTANT HYDRAULIC AND CIRCULATING FLUID

XL5168

July 2022

XL5168 is a non-hydrous synthetic fluid, formulated with organic esters. This product is ideal for high-temperature applications including metallurgy, steel mills, forges, foundries, and in the aluminum industry.

Because of its high auto-ignition point (over 450°C), XL5168 can be used to avoid the dangers posed by conventional mineral-based oils. **XL5168** is also self-extinguishing.

XL5168 is miscible with mineral oils and elastomers (except for Butyl). **XL5168** can also be used with most hydraulic pumps and installations that use conventional oil, without requiring any major modifications. Check with the manufacturer before making any modifications, as doing so may void the manufacturer's warranty.

XL5168 is classified as Biodegradable and Non-toxic, with a rating of **PW1**.

Advantages

- Antiwear, antifoam, demulsibility, and deaeration properties
- Low pour point
- High auto-ignition point
- High viscosity index
- Excellent thermal stability

TYPICAL SPECIFICATIONS

Product Code: XL5168	/032	/046	/068	/100
ISO Grade				
Viscosity (cSt @ 40°C) (ASTM D445) (cSt @ 100°C) (ASTM D445)	35 7.7	46 9.6	73 13.3	110 18.0
Viscosity index (ASTM D2270)	199	200	186	182
Flash Point (°C)	> 290	> 290	> 290	> 290
Fire Point (°C)	344	349	376	380
Auto-ignition Point (°C)	>450	>450	>450	>450
Pour Point (°C) (ASTM D97)	-26	-21	-27	-24
Specific Gravity (g/ml @ 25°C)	0.92	0.92	0.92	0.92
AFNOR filterability	1	1.2	1.5	1.1
Shell 4-ball Wear Test, 40kg	0.65	0.6	0.65	0.35
Colour	Blonde			



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Thermal-Lube

FIRE RESISTANT, BIODEGRADABLE,
FACTORY MUTUAL APPROVED
HYDRAULIC FLUID

XL5168

Comparison	Condat D46	Quintrolubric 888-FR48	Best
Flash Point °C:	324	300	Condat
Pour point °C:	-27	<-30	Equal
Non-Compatibility Seals:	Butyl	Butyl Ethylene propylene Poorly compatible with Neoprene	Condat
Air Release (minutes):	4	7	Condat
Viscosity Index:	200	190	Condat
Density @20 °C:	0.92		Equal
Density @15 °C:		0.92	Equal
Water separation (ml-ml-ml (min)):	40-40-0 (20)	41-39-0 (30)	Condat
Viscosity cSt @ 40 °C:	47	47.5	Equal
Viscosity cSt @ 100 °C:	9.2	9.5	Equal
Protection against corrosion ASTM D665A:	1A	1A	Equal
Gear lubrication FZG:	12	12	Equal
Biodegradability after 28 days (%):	100	86.5	Condat

Comparison study between XL5168/046 (Condat D-46) with Quaker Quintrolubric 888-FR48



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