

## **Sigma Compressor Fluids**

Sigma Premium*Plus*™ Synthetic Fluid  
Sigma Premium™ Semi-Synthetic Fluid




## Sigma Premium Plus Fluids

Properties	ASTM Test	S 100 (Reciprocating)	S 150 (Reciprocating)	S 320 (Rotary Screw)	S 460 (Rotary Screw)	S 680 (Rotary Screw)
Viscosity: 40°C, cSt	D 445	100	150	32	46	68
100°C, cSt	D 445	9.5	12.3	5.7	7.2	9.4
Viscosity Index	D 2270	61	61	117	117	117
Flash Point °C (°F)	D 92	229 (445)	229 (445)	238 (460)	243 (470)	246 (475)
Pour Point °C (°F)	D 97	-37 (-35)	-34 (-30)	-51 (-60)	-51 (-60)	-40 (-40)
Four Ball Wear 1200 RPM, 75°C, 40 kgf, 1 hr (mm)	D 4172B	0.6	0.5	0.6	0.6	0.5
Four Ball Weld Point (kg)	D 2783	315	315	315	315	315
Demulsibility: ml oil/H <sub>2</sub> O/emulsion/min.	D 1401	40/40/0/20	40/40/0/20	40/40/0/5	40/40/0/10	40/40/0/10
Foaming Tendency Sequence I, II, III	D892	nil	nil	nil	nil	nil
Specific Gravity, 16°C (60°F)	D 1298	0.956	0.943	0.852	0.852	0.858

## Sigma Premium Fluids (Semi-synthetic)

Properties	ASTM Test	M-100 (Reciprocating)	M-150 (Reciprocating)	M-460 (Rotary Screw)
Viscosity: 40°C, cSt	D 445	100	150	46
100°C, cSt	D 445	11.1	14.6	6.7
Viscosity Index	D 2270	95	95	91
Flash Point °C (°F)	D 92	221 (430)	238 (460)	241 (465)
Pour Point °C (°F)	D 97	-24 (-12)	-20 (-5)	-26 (-15)
Four Ball Wear 1200 RPM, 75°C, 40 kgf, 1 hr (mm)	D 4172B	0.68	0.65	0.68
Four Ball Weld Point (kg)	D 2783	250	250	250
Demulsibility: ml oil/H <sub>2</sub> O/emulsion/min.	D 1401	40/40/0/20	40/40/0/25	40/37/3/20
Foaming Tendency Sequence I, II, III	D 892	nil	nil	nil
Specific Gravity, 16°C (60°F)	D 1298	0.893	0.891	0.872

## Food Grade

FG-460 (Rotary Screw)	
46	
7.6	
133	
254 (490)	
-51 (-60)	
0.68	
126	
40/40/0/15	
nil	
0.828	

Specifications are subject to change without notice.

## Compatibility

The following materials are compatible with Sigma synthetic and semi-synthetic compressor fluids:

Viton®, High Nitrile Buna N, Teflon®, Epoxy Paint, Oil-Resistant Alkyd, Nylon, Delrin®, Neoprene, SBR Rubber, Low Nitrile Buna N, Acrylic Paint, Lacquer, Polystyrene.

**Kaeser Fluids are not compatible with:**  
PVC, ABS

Polycarbonate bowls can be etched by synthetic lubricants. Kaeser recommends metal bowls or metal bowl guards.

Contact Kaeser Compressors, Inc. for compatibility information on materials not listed above.



# KAESER COMPRESSORS

**Built for a lifetime.™**

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Certified Management Systems



## The Air Systems Specialist

With over 85 years of experience, Kaeser is the air systems specialist. Our extensive 100,000 square foot facility allows us to provide unequalled product availability. With service centers nationwide and our 24-hour emergency parts guarantee, Kaeser customers can rely on the best after-sales support in the industry. Kaeser stands committed to providing the highest quality air system for your specific compressed air needs.