

# Fomblin PFPE: Lubricants

## Product Data Sheet

### Fomblin Z Lubricants

Fomblin Z perfluoropolyether fluids have the following unique features:

- Good low temperature viscosity
- Superior evaporative loss
- Very high viscosity indices
- Very good E.P. and wear characteristics



F O M B L I N<sup>®</sup>

Typical Properties	Fomblin Z Lubricant Grades			
	Z03	Z15	Z25	Z60
Approximate ISO grade	15	100	150	320
Molecular weight (AMU)	4000	8000	9,500	13,000
Kinematic viscosity (ASTM D445)				
20°C (cSt)	30	160	263	600
40°C (cSt)	18	92	157	355
100°C (cSt)	5.6	28	49	98
Viscosity index (ASTM D2270)	317	334	358	360
Pour point (°C) (ASTM D97)	-90	-80	-75	-63
Evaporation weight loss (ASTM 2595)				
149°C, 22 hr (%)	6.0	0.2	—	—
204°C, 22 hr (%)	n.a.	1.2	0.4	0.2
Surface tension (ASTM D1331)				
20°C (dynes/cm)	23	24	25	25
Density (ASTM D891)				
20°C (g/cm <sup>3</sup> )	1.82	1.84	1.85	1.85
Four ball E.P. wear tests (IP 239)				
Init. Seiz. Load (kg)	355	400	501	501
Welding load (kg)	447	631	631	631
Mean hertz load (kg)	104	123	118	118
Four ball wear test (ASTM D4172 B 75°C, 1 hr, 1200 RPM 40 kg)				
Avg. scar diameter (mm)	0.60	0.66	0.90	0.93

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