

MINERAL OILS	Nearest ISO VG	KVI	Dynamic viscosity, η , measured at atmospheric pressure (10 ⁻³ N s m ⁻²)			Pressure exponent, α (10 ⁻⁹ m ² N ⁻¹)		
			30 °C	60 °C	100 °C	30 °C	60 °C	100 °C
<u>High VI oils</u>								
Light machine oil	32	108	38	12.1	5.3	–	18.4	13.4
Heavy machine oil	100	96	153	34	9.1	23.7	20.5	15.8
Heavy machine oil	150	96	250	50.5	12.6	25.0	21.3	17.6
Cylinder oil	460	96	810	135	26.8	34	28	22
<u>Medium VI oils</u>								
Spindle oil	15	–	18.6	6.3	2.4	20	16	13
Light machine oil	32	68	45	12	3.9	28	20	16
Medicinal white oil	68	63	107	23.3	6.4	29.6	22.8	17.8
Heavy machine oil	75	84	122	26.3	7.3	27.0	21.6	17.5
Heavy machine oil	100	38	171	31	7.5	28	23	18
<u>Low VI oils</u>								
Spindle oil	22	–6	30.7	8.6	3.1	25.7	20.3	15.4
Heavy machine oil	100	–7	165	30.0	6.8	33.0	23.8	16.0
Heavy machine oil	150	8	310	44.2	9.4	34.6	26.3	19.5
Cylinder oil	1000	–	2000	180	24	41.5	29.4	25.0

OTHER LUBRICANTS	Dynamic viscosity, η , measured at atmospheric pressure (10^{-3} N s m $^{-2}$)			Pressure exponent, α (10^{-9} m 2 N $^{-1}$)		
	30 °C	60 °C	100 °C	30 °C	60 °C	100 °C
Water	0.80	0.47	0.28	0	0	0
Ethylene oxide-propylene oxide copolymer	204	62.5	22.5	17.6	14.3	12.2
Castor oil	360	80	18.0	15.9	14.4	12.3
Di(2-ethylhexyl) phthalate	43.5	11.6	4.05	20.8	16.6	13.5
Glycerol (glycerine)	535	73	13.9	5.9	5.5	3.6
Polypropylene glycol 750	82.3	–	–	17.8	–	–
Polypropylene glycol 1500	177	–	–	17.4	–	–
Hyvis 05	91.1	–	–	29.3	–	–
Hyvis 07	211	–	–	30.2	–	–
Santotrac 40	30	–	–	34.5	–	–
Tri-arylphosphate ester	25.5	–	–	31.6	–	–
Di(2-ethylhexyl) sebacate	14.7	–	–	9.3	–	–

These tables have been compiled from published data. New data continually become available and the user should always consult the manufacturer of the particular lubricant.