



British High Performance Lubricants

MOLLUBE Range Of Speciality Base Oils (Greases, Metalworking Fluids and Industrial Lubricants)

Characteristics, Unit	Test method ASTM	M GRADES							OL GRADES				A GRADES					CP GRADES			
		M3	M9	M22	M110	BM150	M400	BBM28	OL3	OL8	BOL14	OL100	BA8.5	A25B	A100B	BA130	AR400	CP2	CP4	CP6	CP12
Density 15 ⁰ C (60 ⁰ F), KG/DM ³	D 4052	0.871	0.889	0.902	0.917	0.920	0.922	0.940	0.862	0.879	0.873	0.907	0.869	0.881	0.895	0.911	0.931	0.858	0.854	0.867	0.875
Viscosity 40 ⁰ C, mm ² /S (cSt)	D 445	3.6	9.1	22.3	109	150	375	710	2.86	7.6	14.0	96	8.5	25.5	100	140	440	10.5	20.0	43.0	110
Viscosity 100 ⁰ C, mm ² /S (cSt)	D 445	1.3	2.3	3.7	8.3	11.0	18.0	29.0	N/A	2.1	3.1	8.6	2.3	4.1	8.9	11.1	19.9	2.6	4.1	6.6	11.9
Viscosity 100 ⁰ F, SUS	D 2161	38.5	58	118	585	800	2061	3926	34	53	78	501	56	133	519	734	2425	64	105	219	564
Viscosity 210 ⁰ F, SUS	D 2161	30.4	34	39	54	64	93	143	N/A	N/A	N/A	N/A	N/A	N/A	56	N/A	N/A	76	102	105	97
Flash Point PM, ⁰ C	D 93	106	148	174	212	220	256	220	96	145	160	212	142	180	214	218	221	166	202	216	248
Pour Point, ⁰ C	D 97	<-70	-57	-45	-30	-30	-21	-15	<-70	-63	-27	-33	-42	-45	-36	-33	-12	-39	-15	-15	-15
Aniline Point, ⁰ C	D 611	64	70	75	86	89	98	90	65	76	90	95	81	93	104	98	88	91	107	115	124
VGC	D 2501	N/A	0.862	0.861	0.859	0.858	0.847	0.866	N/A	0.857	0.834	0.848	0.842	0.832	0.830	0.846	0.858	-			
Copper Strip, 100 ⁰ C, 3hrs	D 130	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sulphur, Wt%	D 2622	0.05	0.03	0.06	0.06	0.06	0.12	0.5	0.01	0.01	0.02	<0.01	<0.01	0.03	0.01	0.06	1.8	<0.002	<0.002	<0.002	<0.002
Colour	D 1500	<0.5	<0.5	<0.5	<1	<1	<2.5	>8	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1.5	6.5	<0.5	<0.5	<0.5	<0.5
Total acid number, mg KOH/g	D 974	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
Hydrocarbon Type Analysis																					
C _A . %	D 2140		10	10	11	13	12			4	3	6	3	<1	<1	10	12	<1	<1	<1	<1
C _N .%	D 2140	N/A	45	43	41	36	34	N/A	N/A	52	42	43	45	46	44	37	29	43	34	34	31
C _P .%	D 2140		45	47	48	51	54			44	55	51	52	53	55	53	59	56	65	65	68
Appearance at 15 ⁰ C (60 ⁰ F)	D 4176	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	N/A	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*	C & B*
DMSO extractable compounds, Wt%	IP 346	<1.0	2.0	2.0	2.0	<3.0	2.0	N/A	N/A	1.0	1.0	1.0	1.0	<1.0	<1.0	2.0	1.5	<1.0	<1.0	<1.0	<1.0

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