

## HYCOM GRADES

ASTM TEST METHOD NO.	TEST PARAMETERS	SPECIFICATIONS					
		32	46	68	100	150	220
Visual	Appearance	Clear	Clear	Clear	Clear	Clear	Clear
D 455	Kinematic Viscosity, cSt at 40°C	29-35	42-50	62-74	90-110	135-165	210 - 240
	Kinematic Viscosity, cSt at 100°C	5.4	6.6	8.8	11	15	17.8
D 2270	Viscosity Index, min	95	95	95	95	95	95
D 1298	Density at 29.5°C, gm/ml avg	0.873	0.874	0.876	0.877	0.877	0.878
DIN 51352 P I	Aging characteristics, increase in CCR, % mass, Max (DIN 51352 Part I)	1.5	1.5	1.5	1.5	2.0	2.5
D 97	Pour Point, °C, Max,	-18	-15	-12	-12	-9	-9
D 92	Flash point, COC, °C, Min	175	195	195	205	210	220
D 130	Copper strip corrosion, at 100°C for 3 hrs,max	1	1	1	1	1	1
IP 334	FZG rating, FLS	10	10	10	10	10	10
D 892	Foaming characteristics, ml, max						
	Sequence I	150/0	150/0	150/0	150/0	150/0	150/0
	Sequence II	75/0	75/0	75/0	75/0	75/0	75/0
	Sequence III	150/0	150/0	150/0	150/0	150/0	150/0
D 665	Rusting test A/B	Pass	Pass	Pass	Pass	Pass	Pass
D 974	Neutralization No. mg KOH/g max	0.1	0.1	0.1	0.1	0.1	0.1
DIN 51551	Carbon residue, conradson % wt, Max of distillation. Residue remaining after 80% V/V of the oil	0.3	0.3	0.3	0.3	0.75	0.75