

Typical Properties

Ultra-S Series

S-OIL's Ultra-S series consists of viscosity grades, Ultra-S 4,6 and 8, named according to their viscosities(cSt) at 100 °C

Test Items	ASTM	Ultra-S 4	Ultra-S 6	Ultra-S 8
Appearance	Visual	B&C	B&C	B&C
Sp.Gravity,15/4°C	D 1298	0.834	0.840	0.847
Color, Saybolt	D 156	30	30	30
Kin.Vis@40, cSt	D 445	19.62	32.69	43.89
@100, cSt		4.247	6.017	7.234
Viscosity Index	D 2270	123	132	127
Flash Point,°C (COC)	D 92	228	234	256
Pour Point, °C	D 97	-20.0	-17.5	-15.0
Carbon Residue(CCR), wt%	D 189	<0.01	<0.01	<0.01
Copper Corrosion,100°C/3hr	D 130	1a	1a	1a
Sulfur Content, wt ppm	D 5453	<1.0	<1.0	<1.0
TAN, mgKOH/g	D 974	<0.01	<0.01	<0.01
Ring Analysis, wt% CA	D 3238	0.2	0.2	0.2
wt% CN		17.7	17.3	20.9
wt% CP		82.1	82.5	78.9
Aniline Point	D 611	115.8	123.5	124.0
UV Absorbance, 260-350nm	D 2269	<0.1	<0.1	<0.1
Noack, wt%	D 5800	14.5	7.9	4.1
Saturates, wt%	D 2007	>99	>99	>99