

CASTROL SYNTEC TYPICAL PROPERTIES

SAE Grade	Method	0W-30	5W-30	10W-30	10W-40	5W-50	20W-50
API Service		SL/CF	SL/CF	SL/CF	SL/CF	SL/CF	SL/CF
ILSAC		GF-3	GF-3	GF-3			
ACEA	A1 A1/B1	A1/B1	A3/B3	A3/B3			A3/B3/B4
Specific Gravity, 60°F	ASTM D-1298	0.847	0.854	0.857	0.859	0.852	0.866
Pounds per Gallon		7.05	7.11	7.13	7.15	7.10	7.21
Viscosity, cSt 100°C	ASTM D-445	10.0	9.7	10.0	13.2	17.5	18.5
Viscosity, cSt 40°C	ASTM D-445	54	53	58	89	110	154
Viscosity Index	ASTM D-2270	175	171	159	148	175	135
Low Temperature (°C) Cranking Viscosity, cP max	ASTM D-5293	<6200(-35)	<6600(-30)	<7000(-25)	<7000(-25)	<6600(-30)	<9500(-15)
Low Temperature (°C) Pumping Viscosity, cP max	ASTM D-4684	60,000 (-40)	60,000(-35)	60,000(-30)	60,000(-30)	60,000(-35)	60,000(-20)
High Temp High Shear Rate Viscosity, cP @150 °C	CEC L-36-A-87	2.95	2.92	3.1	3.8	4.5	4.5
Flash Point, COC, °F (°C)	ASTM D-92	437(225)	437(225)	450(232)	450(232)	437(225)	437(225)
Fire Point, COC, °F (°C)	ASTM D-92	>450(232)	>450(232)	>450(232)	>450(232)	>450(232)	>450(232)
Pour Point, °C max	ASTM D-5950	-42	-39	-36	-33	-39	-30
Zinc % wt	ASTM D-4951	0.11	0.11	0.11	0.11	0.11	0.11
Phosphorus % wt	ASTM D-4951	0.09	0.09	0.09	0.09	0.09	0.09

June 2002