



CITGO SENTRY® OILS

Date 1/09

DESCRIPTION: CITGO Sentry Oils are a complete line of well-refined, non-additive mineral oils for bearing and other general purpose lubrication.

QUALITIES: They are made from high viscosity index base stocks having low carbon residues and high flash points.

Available in several viscosity grades, these oils provide good lubrication with low maintenance costs, and have the necessary characteristics to permit their use in many applications.

CITGO Sentry Grades 15, 32, 68 and 460 are straight base stocks. All other grades are composed of base stock blends.

APPLICATIONS: CITGO Sentry Oils are recommended for general lubrication of industrial machinery, machine tools, engine bearings, and other plant equipment where a non-additive mineral oil is desired.

Grades 19 through 68 are widely recommended for heat transfer applications and in hydraulic systems where pressures or temperatures are moderate. They can be used in many applications where high oil loss makes the use of a lower cost product desirable.

CITGO Sentry Oils are widely applied as diluents for cutting oil bases, and as flushing oils.

They also find application in brick presses and steel concrete forms where a non-additive mineral oil is required.

CITGO Sentry Oils will give satisfactory service in lubricating small electric motors.

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Date 1/09 - (Continued)

TYPICAL PROPERTIES:

CITGO SENTRY® OILS

	15	19	32	46	68	100	129	320	460
Grade	637001001	637019001	637004001	637005001	637006001	637009001	637099001	637013001	637015001
Material Code	33.1	32.9	31.0	30.4	29.9	28.6	29.5	27.2	26.5
Gravity, ASTM D 4052, °API	7.16	7.17	7.25	7.28	7.30	7.36	7.32	7.42	7.46
Density, lb/gal at 60°F	380 (193)	388 (198)	424 (218)	435 (224)	465 (241)	470 (243)	510 (266)	525 (274)	595 (313)
Flash Point, COC, ASTM D 92, °F (°C)	15.7	19	32	46	65.3	100	129	320	460
Viscosity:	90	105	158	235	339	507	670	1700	2500
ASTM D 445, cSt at 40°C	90	95	95	95	93	95	95	95	95
ASTM D 2161, SUS at 100°F	5 (-15)	5 (-15)	5 (-15)	10 (-12)	10 (-12)	10 (-12)	10 (-12)	10 (-12)	10 (-12)
Viscosity Index, ASTM D 2270	L0.5	1.0	1.0	1.0	1.0	2.0	2.0	4.5	5.0
Pour Point, ASTM D 97, °F (°C)	0.01	0.01	0.01	0.01	0.01	0.15	0.02	0.40	0.40
Color, ASTM D 1500	213 (101)	216 (102)	221 (105)	228 (109)	235 (113)	247 (119)	249 (121)	260 (127)	264 (129)
Carbon Residue, ASTM D 524, %	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aniline Point, ASTM D 611, °F (°C)	1	1	1	1	1	1	1	1	1
Total Acid No., ASTM D 664	75	105	150	215	315	465	700	1500	2150
Corrosion, ASTM D 130, 3 hours at 212°F	15	-	32	46	68	100	-	320	460
ASTM Grade									
ISO VG No.									