



CITGO® SlideRite® Oils

OVERVIEW



- Industrial oils designed to prevent stick-slip problems on heavily loaded slideways of machine tools.

FEATURES & BENEFITS



- Contain special non-corrosive additives to protect against the occurrence of stick-slip.
- Impart good metal-wetting, adhesiveness, and extreme pressure (EP) characteristics to eliminate chatter and scoring in the operation of machine tool ways.
- Designed to minimize formation of emulsions that make it difficult to maintain clean and effective coolants.
- Especially recommended for use in applications where synthetic coolants or soluble oil emulsions are used.
- Light-colored to provide good visibility of slideways.
- Very mild odor.
- The ISO VG 32, 68, and 220 grades have been formulated to meet requirements of the Fives Group (formerly Cincinnati Machine) specifications covering machine tool way lubricants.

Grade

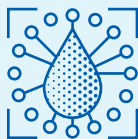
CITGO SlideRite® 32
 CITGO SlideRite® 68
 CITGO SlideRite® 220

Fives Cincinnati Specification

P-53*
 P-47
 P-50

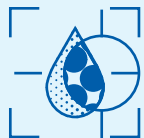
***NOTE:** Fives Group Specification P-53 is a combination hydraulic and way oil specification.

APPLICATIONS



- CITGO SlideRite 32 is suitable for use in central systems for lubricating hydraulic pump units and slideways, and can be used where a premium grade light viscosity oil is needed.
- CITGO SlideRite 68 is suitable for use as a slideway lubricant where a heavy-medium viscosity oil is specified.
- CITGO SlideRite 220 and CITGO SlideRite 320 are suitable for use as slideway lubricants where a heavy viscosity oil is specified.

PROPERTIES



Typical Properties for CITGO SlideRite Oils:

Grade	32	68	220	320
Material Code	637203001	637210001	637220001	637320001
Gravity, ASTM D4052, °API	31.5	29.5	29.8	26.9
Density, lb/gal at 60°F	7.228	7.32	7.305	7.43
Flash Point, COC, ASTM D92, °F (°C)	392 (200)	428 (220)	455 (235)	482 (250)
Viscosity ASTM D445				
cSt at 40°C	32.9	69.9	220	320
cSt at 100°C	5.9	9.1	19.6	25.9
Viscosity ASTM D2161				
SUS at 100°F	169	357	1163	1482
SUS at 210°F	46	57	99.2	124.1
Viscosity Index, ASTM D2270	123	105	100	100
Pour Point, ASTM D97, °F (°C)	-27 (-33)	-17 (-27)	10 (-12)	10 (-12)
Color, ASTM D1500	L1.5	L2.5	L2.5	L3.5
Texture	Tacky	Tacky	Tacky	Tacky
Stick-Slip Coefficient Ratio, Max.(1)	0.8	0.8	0.8	0.8
Gleittechnik Demulsibility Test	Pass	Pass	Pass	Pass
ISO VG No.	32	68	220	320
Fives Group Specification	P-53	P-47	P-50	—

Note: (1) Ratio of the coefficients of kinetic friction to static friction.

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