



CITGO® Wireline Lubricants

OVERVIEW



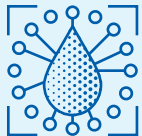
- Premium viscous, tacky lubricants and sealants designed specifically for use in oil and gas well logging operations and other wireline applications where a lubricating dynamic seal is required.
- Formulated with advanced corrosion inhibitors to protect against corrosion in harsh, high-pressure down-hole environments where exposure to moisture, H₂S, and corrosive fluids occurs.
- Available in several viscosity grades for ease of application in varying temperature conditions.

FEATURES & BENEFITS



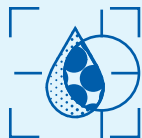
- Excellent sealing capability.
- Excellent adhesion to prevent sling off, splatter, and drip.
- Outstanding protection against corrosion.
- Ease of application.
- Excellent low-temperature performance.

APPLICATIONS



- Recommended as a lubricant/sealant for braided wirelines, cables, and slicklines used in down-hole operations including oil and gas well logging, pipe recovery, and reservoir analysis.

PROPERTIES



Typical Properties for CITGO Wireline Lubricants:

Material Number	637163001	637167001	637169001	63717001	637172001
Grade	68	220	460	680	1500
Specific Gravity, 60°F	0.897	0.895	0.890	0.888	0.880
Pounds per Gallon	7.47	7.45	7.41	7.39	7.33
Color	1.0	1.0	1.0	1.0	1.0
Appearance	Light Amber	Amber	Amber	Amber	Amber
Flash Point, °C (°F)	170 (340)	204 (400)	227 (440)	227 (440)	230 (446)
Viscosity:					
cSt at 40°C	68.4	220	460	680	1,500
cSt at 100°C	10.8	22.2	42.6	62.1	120
Pour Point, °C (°F)	-33 (-27)	-18 (0)	-15 (5)	-18 (0)	-21 (-6)
Rust Test, D-665B	Pass	Pass	Pass	Pass	Pass
Texture	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid

Material Number	637174001	637179001	637175001	637176001
Grade	5000	7500	10000	12000
Specific Gravity, 60°F	0.872	0.862	0.864	0.863
Pounds per Gallon	7.26	7.18	7.20	7.19
Color	1.0	1.0	1.0	1.0
Appearance	Amber	Amber	Amber	Amber
Flash Point, °C (°F)	230 (446)	189 (373)	230 (446)	174 (345)
Viscosity:				
cSt at 40°C	5,000	7,500	9,200	12,000
cSt at 100°C	400	674	800	1,100
Pour Point, °C (°F)	-24 (-11)	-28 (-18)	-21 (-6)	-18 (0)
Rust Test, D-665B	Pass	Pass	Pass	Pass
Texture	Tacky Liquid	Tacky Liquid	Tacky Liquid	Tacky Liquid

NOTE: These products are NOT designed to be used as wire rope lubricants on draglines, cranes, elevators, shovels, drilling rigs, suspension bridges, or cable stayed bridges.

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