



Super-STA[®] and Super-STA[®] M

Conoco Super-STA and Super-STA M are adhesive, multipurpose, extreme-pressure (EP) lithium greases developed for use in a wide variety of automotive and industrial applications. They contain a tackiness additive for improved retention, reduced leakage and enhanced resistance to water washout.

Super-STA and Super-STA M are manufactured with high-quality paraffinic base oils and a lithium 12-hydroxystearate soap thickener. They are fortified with extreme-pressure and antiwear additives, rust and oxidation inhibitors, and a tackiness additive. They have good oxidation resistance, high load-carrying capacity for excellent wear protection, and protect metal parts against rust and corrosion. They provide good adhesion to bearing surfaces for improved retention and resistance to water washout, and have excellent resistance to structural breakdown even under severe operating conditions.

Super-STA M is the same as Super-STA, but fortified with 1% molybdenum disulfide for extra protection under heavy or shock loading. It meets the performance requirements of the Mack MG-C specification for use as a chassis lubricant.

Applications

- Automotive chassis parts such as steering knuckles, ball joints, U-joints and tie-rod ends
- Wheel bearings on passenger cars and heavy equipment equipped with drum brakes
- Moderately loaded plain and rolling-element bearings in industrial equipment
- Agricultural and construction equipment requiring a tacky, water-resistant, extreme-pressure lithium grease
- General-purpose shop/industrial grease

Super-STA M meets the performance requirements of:

- Mack Specification MG-C

Features/Benefits

- Multipurpose grease for use in a wide variety of industrial and automotive applications
- Good extreme-pressure and antiwear properties
- Good tackiness for improved retention

**Tacky,
Multipurpose,
Extreme-Pressure
Lithium Greases**

**U.S. Technical
Services Hot Line:
1-800-255-9556**

**U.S. Customer
Service:
1-800-640-1956**

**International:
+1-832-486-3363**

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- High shear stability
- Protects against rust and corrosion
- Resists water washout
- Protects against fretting in splined shafts, pivot pins and other parts subject to oscillation, sliding or vibration (Super-STA M)

Super-STA® and Super-STA® M

Typical Properties

NLGI Grade	Super-STA®			Super-STA® M	
	1	2	0	1	2
Thickener	Lithium	Lithium	Lithium	Lithium	Lithium
Color	Amber	Amber	Gray-Black	Gray-Black	Gray-Black
Dropping Point, °C (°F)	200 (392)	200 (392)	200 (392)	200 (392)	200 (392)
Density, lbs/gal	7.14	7.14	7.14	7.30	7.40
Penetration, Worked (60 strokes), ASTM D217	325	280	370	325	280
Texture	Tacky	Tacky	Tacky	Tacky	Tacky
Four-Ball EP, ASTM D2596, Weld Load, kgf	250	315	315	315	315
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.42	0.42	0.43	0.43	0.43
Rust Prevention, ASTM D1743	Pass	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	45	50	40	45	50
Base Oil Properties:					
Viscosity,					
cSt @ 40°C	190	190	190	190	190
cSt @ 100°C	17.0	17.0	17.0	17.0	17.0
SUS @ 100°F	1,003	1,003	1,003	1,003	1,003
SUS @ 210°F	88.2	88.2	88.2	88.2	88.2
Viscosity Index	95	95	95	95	95
Usable Temperature Range,					
°C	-21 to 129	-18 to 135	-23 to 121	-21 to 135	-18 to 135
°F	-5 to 265	0 to 275	-10 to 250	-5 to 275	0 to 275

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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