



Super-STA™ and Super-STA™ M

Conoco Super-STA™ and Super-STA™ M are premium-quality, extreme-pressure (EP), multipurpose lithium greases.

Super-STA™ M grease is composed of Super-STA™ grease, with the addition of Molybdenum Disulfide (Moly). It meets Mack MG-C performance requirements for a chassis lubricant. Moly is used to reduce wear by maintaining lubrication under conditions of high friction and shock loads.

Super-STA™ and Super-STA™ M greases are manufactured with high viscosity-index paraffinic base oils thickened with lithium 12-hydroxy stearate soap stock. They contain rust and corrosion inhibitors, an effective EP additive and a tackiness agent. This additive combination results in quality greases which ensure excellent lubrication and longer bearing life.

Applications

Wheel bearings, chassis, ball joints, C.V. joints, U-joints, and brake self-adjusting screws found in passenger cars, trucks, agricultural machinery and industrial equipment. They also are recommended for other applications that call for an EP lithium grease.

Outstanding Features

- Recommended for a wide range of applications, including mining, construction, marine deck cranes, paper machines, dredging, logging and rock quarry
- Extremely tacky
- Clings to bearing surfaces to give long-lasting protection
- Reduces friction and wear during shock loads
- Rust- and corrosion-inhibited to protect metal surfaces
- Good water resistance
- Stable in storage and in use
- Forms a seal to help prevent dirt and water from entering the bearing
- Contains no lead
- Super-STA™ M – protection against fretting in splined shafts, pivot pins and other parts subjected to oscillation, sliding or vibration

**Premium Quality,
Extreme-Pressure,
Multipurpose
Lithium Greases
With A Tackifier**

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

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

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

**Asia-Pacific:
tel: (65) 6536-0010
fax: (65) 6536-0012**

**E-mail address:
*conocolubricants@
conocophilips.com***

www.lubes.conoco.com

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



**Super-STA™ and Super-STA™ M
Typical Properties**

NLGI No.	SUPER-STA			SUPER-STA M	
	1	2	0	1	2
Penetration (Worked 60 strokes)	325	280	370	325	280
Dropping Point,					
°F	392	385	350	375	375
°C	200	190	177	190	190
Soap Type (Thickener)	Lithium	Lithium	Lithium	Lithium	Lithium
Timken OK Load (lb)	45	50	40	45	50
Four-Ball EP,					
Weld Point (kg)	250	315	315	315	315
Load Wear Index (LWI)	61	45	50	50	50
Four-Ball Wear (mm)	0.42	0.42	0.42	0.42	0.42
Shear Stability (% Change)	0	0	0	0	0
Roll Stability (% Change)	+5	+5	+5	+5	+7
ASTM Rust Test (A&B)	Pass	Pass	Pass	Pass	Pass
Base Oil Properties,					
cSt @ 40°C	190	190	190	190	190
cSt @ 100°C	17.0	17.0	17.0	17.0	17.0
SUS @ 100°F	880	880	880	880	880
SUS @ 210°F	86	86	86	86	86
Viscosity Index	93	93	95	95	95
Pour Point, (°F)	+10	+10	+10	+10	+10
Color	Green/Brown	Green/Brown	Gray/Black	Gray/Black	Gray/Black
Usable Temperature Range,					
°F	-5 to 265	0 to 275	-10 to 250	-5 to 275	0 to 275
°C	-21 to 129	-18 to 135	-23 to 121	-21 to 135	-18 to 135
Low Temperature Mobility,					
gm/s @ 20°F (7°C)	2.0	1.0	1.5	0.4	0.4
gm/s @ 10°F (-12°C)	0.9	0.4	0.6	0.2	0.2
gm/s @ 0°F (-18°C)	0.5	0.1	0.2	0.1	0.1
Wheel Bearing Leakage, % Loss	11	2	33	0.7	1.3
Oil Separation, wt %	7	0.5	—	2.4	1.2

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

© 2004 ConocoPhillips Company. Conoco and the Conoco logo are trademarks of ConocoPhillips Company or one of its subsidiaries.