

Strilube 5103 contains mixed Alkyl Borate Ester for drop point increase in Lithium and Calcium 12-hydroxystearate greases. It is truly multifunctional as it reduces the wear and friction while enhancing the drop point of the grease, giving additional tribological performances.

Physio-chemical properties

Tests	Test Method	Results
Appearance	Visual	Clear
Density at 29.5°C	ASTM D-1298	0.98 g/ml
Kinematic Viscosity at 40°C	ASTM D-445	18 cSt (Typical)
Flash Point	ASTM D-92	>110°C

Note - Above are the typical data and not to be considered as product specification

Typical Treat Rate:

- 1.5% w/w for Simple Lithium base grease based on 12-HAS and HCO
- 3% w/w for Simple Calcium base grease based on 12 HSA

Performance data in Lithium 12-hydroxystearate Grease

	Base Grease	Lithium 12-hydroxystearate base Grease + 1.5% STRILUBE 5103
Penetration (Unworked)	270	273
Penetration (60 strokes)	271	272
<i>ASTM D-217</i>		
Drop Point	203°C	268°C
<i>ASTM D-2265</i>		
Four-ball wear	0.945 mm	0.48 mm
<i>ASTM D-2266</i>		
Four-ball weld load	160 Kg	200 Kg
<i>ASTM D-2596 (welding point)</i>		
Copper Corrosion	1a	1a
<i>ASTM D-4048 (24 hours, 100°C)</i>		

Note: Performance data is based on the base grease available with known process of synthesizing. Results may vary to some extent from base grease to base grease even for the same composition. It is recommended to confirm the performance of the additive in the base grease intended to use in the field.

Performance data in Calcium 12-hydroxystearate Grease

	<i>Base Grease</i>	<i>Calcium 12-hydroxystearate base Grease + 3% STRILUBE 5103</i>
Penetration (Unworked)	231	238
Penetration (60 strokes)	230	235
<i>ASTM D-217</i>		
Drop Point	150°C	188°C
<i>ASTM D-2265</i>		
Four-ball wear	0.65 mm	0.458 mm
<i>ASTM D-2266</i>		
Four-ball weld load		
<i>ASTM D-2596 (welding point)</i>	160 Kg	250 Kg
Copper Corrosion		
<i>ASTM D-4048 (24 hours, 100°C)</i>	1a	1a

Note: Performance data is based on the base grease available with known process of synthesizing. Results may vary to some extent from base grease to base grease even for the same composition. It is recommended to confirm the performance of the additive in the base grease intended to use in the field.

PACKING: 190 Kg (419 lbs) closed head drum

STORAGE CONDITIONS: Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 46°C (115°F)

SOLUBILITY: Soluble in petroleum and synthetic lubricant base stocks and most common solvents. Insoluble in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives.

SHELF LIFE: Best if used within 18 months from the date of manufacture.

Manufactured by:
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