

# SLIPKOTE® Disc Brake Caliper Lubricants

Proven To Reduce Brake Noise Up To 90% per Sae J2521 Test Results



SLIPKOTE 220R Silicone

SLIPKOTE 805 Synthetic

SLIPKOTE 490 Moly Silicone

SLIPKOTE 922 Ceramic

SLIPKOTE 807 Moly Synthetic

## SLC Disc Brake Caliper Greases

	SLIPKOTE 807 Moly Synthetic	SLIPKOTE 922 Ceramic	SLIPKOTE 490 Moly Silicone	SLIPKOTE 805 Synthetic	SLIPKOTE 220R Silicone
Color	Black	Can Be Dyed Any Color	Moly Gray	Can Be Dyed Any Color	Translucent White
Base Oil	Synthetic	Synthetic	Silicone	Synthetic	Silicone
Thickener	Synthetic	Synthetic	Synthetic	Synthetic	Synthetic
Boundary Lubricant	Moly	Ceramic	Moly	None	None
NLGI Number	2	2	2	2	3
Operating Temperature Range	-30°F to 850°F (with Boundary Lubricant)	-70°F to 3000°F (with Boundary Lubricant)	-50°F to 850°F (with Boundary Lubricant)	-30°F to 450°F	-50°F to 570°F
Dropping Point	None	None	None	None	None
Water Washout ASTM D-1264	5.0	3.0	.25	5.0	.25



### SPECIALTY LUBRICANTS CORPORATION

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Sae J2521 Test Results With Fade—Total Stops = 1,917

Frequency Ranges					
	1 kHz to 18 kHz	2 kHz to 6 kHz	6 kHz to 10 kHz	10 kHz to 14 kHz	14 kHz to 18 kHz
BASE TEST NO LUBE  TOTAL STOPS WITH NOISE = 177	Stops > 80 dB = 177 (9.2%)	Stops > 80 dB = 62 (3.2%)	Stops > 80 dB = 136 (7.1%)	Stops > 80 dB = 13 (0.7%)	Stops > 80 dB = 11 (0.6%)
 <b>Compare these Base Test Standards to SLIPKOTE's Results* below.</b> 					
	1 kHz to 18 kHz	2 kHz to 6 kHz	6 kHz to 10 kHz	10 kHz to 14 kHz	14 kHz to 18 kHz
SLIPKOTE 807 Moly Synthetic  TOTAL STOPS WITH NOISE = 41	Stops > 80 dB = 41 (2.1%)	Stops > 80 dB = 17 (0.9%)	Stops > 80 dB = 25 (1.3%)	Stops > 80 dB = 0 (0%)	Stops > 80 dB = 0 (0%)
SLIPKOTE 922 Ceramic  TOTAL STOPS WITH NOISE = 16	Stops > 80 dB = 16 (0.8%)	Stops > 80 dB = 16 (0.8%)	Stops > 80 dB = 0 (0%)	Stops > 80 dB = 0 (0%)	Stops > 80 dB = 0 (0%)
SLIPKOTE 490 Moly Silicone  TOTAL STOPS WITH NOISE = 113	Stops > 80 dB = 113 (5.9%)	Stops > 80 dB = 89 (4.7%)	Stops > 80 dB = 48 (2.5%)	Stops > 80 dB = 5 (0.3%)	Stops > 80 dB = 12 (0.6%)
SLIPKOTE 805 Synthetic  TOTAL STOPS WITH NOISE = 58	Stops > 80 dB = 58 (3%)	Stops > 80 dB = 51 (2.7%)	Stops > 80 dB = 5 (0.3%)	Stops > 80 dB = 5 (0.3%)	Stops > 80 dB = 0 (0%)
SLIPKOTE 220R Silicone  TOTAL STOPS WITH NOISE = 21	Stops > 80 dB = 21 (1.1%)	Stops > 80 dB = 19 (1%)	Stops > 80 dB = 2 (0.1%)	Stops > 80 dB = 0 (0%)	Stops > 80 dB = 0 (0%)

\* Sae J2521 Tested by Link Testing Laboratories and a partnership with a major friction manufacturer.  
Test performed on a Crown Victoria Platform



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# Silaramic<sup>®</sup> Brake Lubricant

From Specialty Lubricants Corporation

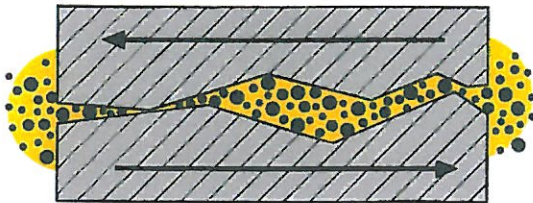


Silaramic<sup>®</sup> is specially formulated with **silicone grease and a synergistic blend of ceramic and other proprietary boundary lubricants**. It is treated with the latest corrosion, extreme pressure, and oxidation additives. It dramatically reduces brake noise (NVH) by changing or eliminating natural noise frequencies and dampening vibrations. Silaramic is engineered to last the life of the brake pads. Due to the non-melting thickener, it will not run out of the brakes into the friction pads or rotors. Silaramic's wide temperature rating of  $-50^{\circ}\text{F}$  to over  $3000^{\circ}\text{F}$  make it ideal for all types of brake materials, including ceramic.

## SILARAMIC<sup>®</sup> DRASTICALLY REDUCES METAL-TO-METAL CONTACT BETWEEN OPPOSING SURFACES AND REDUCES NOISE

### NON-BOUNDARY BRAKE LUBRICANT

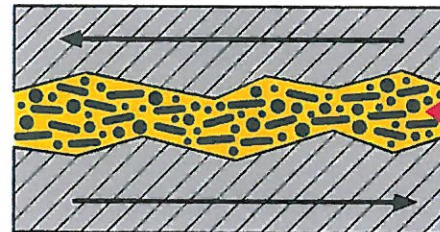
EXTREME LOADS



Hydrodynamic lubrication failure and lack of noise reduction

### SILARAMIC<sup>®</sup> BRAKE LUBRICANT

EXTREME LOADS

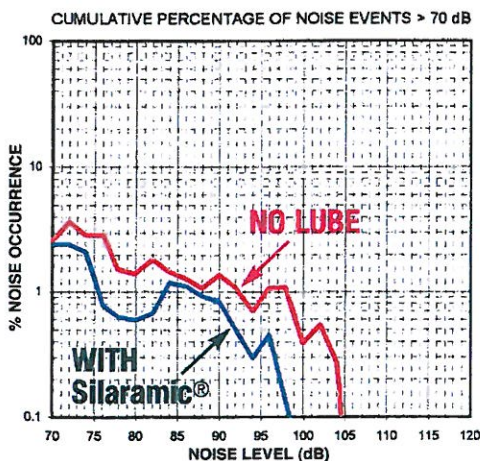


CERAMIC BOUNDARY LUBRICANTS

Silaramic<sup>®</sup> prevents metal-to-metal contact under conditions of high loads—and dampens noise.

## TEST DATA — SAE J2521 TEST RESULTS

Comparison of No Brake Lubricant (RED) with Silaramic<sup>®</sup> Brake Lubricant (BLUE)



REDUCTION OF 195 NOISY STOPS (58%) BY APPLYING SILARAMIC<sup>®</sup> TO ALL MOVING HARDWARE AND BACK OF BRAKE PADS

- Silaramic<sup>®</sup> reduced the High Frequency of Noise in the 14 kHz to 17 kHz range by 93%!
- Silaramic<sup>®</sup> extended the life of the brake pads. During testing, the inboard brake pad had 49% less wear, and the total reduction in wear of inboard and outboard brake pads was 30%!

Note: SAE J2521 Test Data available upon request.

## PRODUCT INFORMATION

SILARAMIC® BRAKE LUBRICANT		TEST
Color	Silver	N/A
Base Oil	Silicone	N/A
Thickener	Synthetic	N/A
Boundary Lubricant	Proprietary and Ceramic	N/A
NLGI Number	3	ASTM D-217
Operating Temperature Range	-50°F to 550°F (to 3000°F with dry film lubrication)	ASTM D-92 & ASTM D-2265
Melting Point	None	ASTM D2265
Water Washout	.25	ASTM D-1264
Rust Preventative	Pass	ASTM D-1743
Bleed, % (24 hrs. @ 212°F)	0.2	FS 791-321-2

### SILARAMIC® ELASTOMER COMPATIBILITY—JIS K 2228 8.10 72 HOURS @ 248°F (120°C)

RUBBER	TEST	RESULTS
EPDM	Volume %	+2.4 Pass
	Hardness	-2 Pass
NITRILE	Volume %	-3.5 Pass
	Hardness	+4 Pass

### SILARAMIC® APPLICATION



*Silaramic® is available in private labeled Pouches, Tubes, Brush Top Jars, Pails, Kegs, and Drums*



#### EAST COAST AND INTERNATIONAL SPECIALTY LUBRICANTS CORPORATION

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