

## Silicone Damping Lubricants



Silicone damping lubricants are used to provide motion control, noise reduction and smooth feel. When compared to hydrocarbon based lubricants, silicones have excellent temperature-viscosity characteristics, higher shear stability, water resistance and better low temperature performance. They provide a superior protective film between moving parts ensuring quiet mechanical operation and smooth action over a wider range of environmental conditions. These enhanced qualities extend service life of the mechanism.

The 40000 series damping fluids and greases were developed by Syn-Tech Ltd. to provide a smooth feel to mechanisms such as sliding or rotating switches, optical equipment such as surveying sights, microscopes, or any device that needs motion control, noise damping and a “quality” feel. These products are formulated using the highest quality “plastics friendly” silicone fluids and non-melting thickeners to meet a wide range of damping requirements and operating temperatures.

The lubricants in this series are available as:

- A fluid (-F suffix)
- A PTFE thickened grease for enhanced “smooth feel” and wear protection (-G suffix)
- A fumed silica thickened grease with a translucent appearance (-H suffix)

Custom colors and viscosities from 1cSt to 1,000,000 cSt are available upon request.

	NS-40032	NS-40150	NS-40300	NS-41500	NS-43500	NS-49000	NS-4017K
	Damping Level						
	Low						High
<b>Fluid Properties</b>							
Viscosity @ 40°C	80	375	750	3800	10000	22000	45000
Viscosity @ 100°C	33	154	310	1540	3800	9500	19000
Viscosity Index	68	77	102	110	133	146	151
Flash Point (°C)	>300	>300	>300	>300	>300	>300	>300
Pour Point (°C)	-65	-50	-50	-45	-45	-43	-41
<b>Grease Properties</b>							
NLGI Grade	1	1	1	2	2	2	2
Oil Separation, 24 Hrs. @100°C	3	3	2	1	1	1	1
Dropping Point (°C)	>260	>260	>260	>260	>260	>260	>260

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**Our Expertise** Syn-Tech Ltd.’s product line has evolved products that satisfy applications of many types. Experience and in-house testing facilities have generated the knowledge to create and modify new and existing products to perform under rigorous demands. Contact our offices for assistance in lubricant selection.

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