

# DAMPING GREASES

## For Motion Control or Noise Reduction

NyoGels 779, 795A, 773A, 767A



The World Leader in Synthetic Lubricants

A family of tacky, non-melting, plastic-compatible, non-corrosive, inorganically-gelled, shear-stable greases based on synthetic hydrocarbon fluids. The several grades have varying low temperature capabilities.

### WHAT ARE DAMPING GREASES?

"Controlled-shear" gels or damping greases are used to reduce free motion and to quiet operating noise of loosely-fitting components in a wide range of mechanical and electromechanical devices, ranging from the focusing threads of an optical instrument, or shafts and linkages of a television tuner, to the cams and sliding elements of a toggle switch. These greases are effectively "motion control compounds". They can be used on devices where a fine adjustment or slow, controlled motion is required, usually involving hand operation, and also where a damping of free motion and a quieting of resulting noise is needed.

### PROVEN APPLICATIONS

Electric switch mechanisms	Appliance controls
Microscopes	Potentiometers
Telescopes and binoculars	Surveying instruments
Riflescopes	Electronic instrument controls
Television tuners	Cameras
Gearmotors and geartrains	Laser controls

### A RANGE OF CONSISTENCY IN A HOMOLOGOUS SERIES

The present family of Nye damping grease includes four grades with consistencies, varying from extra light, with low temperature usefulness to  $-40^{\circ}\text{C}$ , to heavy, with usefulness to  $0^{\circ}\text{C}$ . High temperature use limits for all grades should approach  $125^{\circ}\text{C}$ . Intermediate and ultra-heavy grades can also be prepared for special needs.

NyoGel 779	- Extra Light -	$-40^{\circ}\text{C}$
NyoGel 795A	- Light -	$-34^{\circ}\text{C}$
NyoGel 773A	- Medium-	$-17.8^{\circ}\text{C}$
NyoGel 767A	- Heavy -	$0^{\circ}\text{C}$

(9709)

## TYPICAL PROPERTIES

Grade: Product:	Extra Light NyoGel 779	Light NyoGel 795A	Medium NyoGel 773A	Heavy NyoGel 767A
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### Base Oil Properties:

Viscosity at 100°C	115cs	215cs	290cs	900cscs
40°C	2000cs	4500cs	7300cs	32000cs
25°C	4500cs	10000cs	20000cs	100000cs
-17.8°C	250000cs	600000cs	1500000cs	7000000cs
Flash Point	243°C	254°C	over 260°C	over 260°C
One million centistokes Viscosity at X°C, X=	-29	-17.8	-15	0
Density g/ml	0.87	0.88	0.88	0.89

### Typical Grease Properties:

Color	Colorless to Yellow	Colorless to Yellow	Colorless to Yellow	Colorless to Yellow
Appearance	Smooth	Smooth	Smooth	Smooth
Unworked Penetration	258	243	240	-----
Worked Penetration	279	267	270	-----
Dropping Point, °C	over 260	over 260	over 260	over 260
Oil Separation, 24 hrs. at 100°C	1.6%	0.3%	0.6%	0.2%
Evaporation, 24 hrs. at 100°C	0.3%	0.3%	0.3%	0.2%

## SPECIFICATIONS

The typical properties shown on this product data sheet should not be used as a basis for preparing specifications. Please contact **NYE LUBRICANTS, INC.** for assistance and recommendations pertaining to specification limits and requirements.

## TOXICITY

The NYE DAMPING GREASES are not known to cause harmful effects. However, thermal degradation can liberate toxic fumes. Avoid contamination of tobacco products, or heating the greases above 200° Celsius. Refer to our product Material Safety Data Sheet for detailed safety information.

## PACKAGING

2-ounce and 1-pound jars, 7-pound and 35-pound pails, 110-pound and 385-pound drums. Smaller containers (tubes and syringes) are available upon request.