

GREASE PROPERTIES AND APPLICATIONS GUIDE

PRODUCT NAME / PROPERTIES	GRANTT HYBRID HEAVY GREASE	GRANTT PREMIUM LITHIUM COMPLEX GREASE	GRANTT LITHIUM MP EXTRA GREASE
NLGI	2*	2	2
Dropping point °C	186	272	197
Maximum usable temperature (°C)	120 - 135	150 - 170	120 - 135
Water resistant	Excellent	Good	Good
Protection against rust	Moderate	Good	Good
Work stability - mechanical stability	Good to Excellent	Good to Excellent	Good to Excellent
Work stability - pumpability	Good	Good to Excellent	Good
Oxidation stability	Good	Excellent	Good to Excellent
Main Uses	Automotive chassis	General high temperature automotive and industrial applications	General automotive and industrial applications
	General automotive and industrial applications under moderate pressure, load, speed and temperature		
	Agricultural / Wet application	Automotive wheel bearing	Ball and roller bearing

* Exceeds NLGI 2

GREASE CONSISTENCY-NLGI

<div>SEMIFLUID</div> <div>INCREASING CONSISTENCY</div> <div>FIRM BLOCK</div>	#NLGI	ASTM-WORKED PENETRATION	FOOD ANALOGY
	000	445-475	Ketchup
	00	400-430	Applesauce
	0	355-385	Brown Mustard
	1	310-340	Tomato Paste
	2	265-295	Peanut Butter
	3	220-250	Vegetable Shortening
	4	175-205	Frozen Yogurt
	5	130-160	Smooth Pate
	6	85-115	Cheddar Cheese Spread

ADDITIVE TYPE AND FUNCTIONS

ADDITIVE TYPE	PURPOSE	FUNCTIONS
Anti-Wear and EP Agent	Reduce friction and wear and prevent sourcing seizure.	Chemical reaction with metal surface to form film with lower shear strength than the metal, thereby preventing metal to metal contact.
Corrosion and Rust Inhibitor	Prevent corrosion and rusting of metal parts in contact with the grease.	Preferential adsorption of polar constituent on metal surface to provide protective film of neutralize corrosive acids.
Viscosity Modifier	Increase base oil viscosity.	Oil soluble polymers increase base oil viscosity
Antioxidant	Retard oxidative de-composition.	Decompose proxides and terminate free radical reactions.
Metal Deactivator	Reduce catalytic effects of metal on oxidation rate.	Form inactive film on metal surfaces by complexing with metallic ions.
Structure Modifier	Increase adhesion, water resistant properties	Polymers increase cohesive and adhesive properties of grease.

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NEW ADVANCED GRANTT GREASE

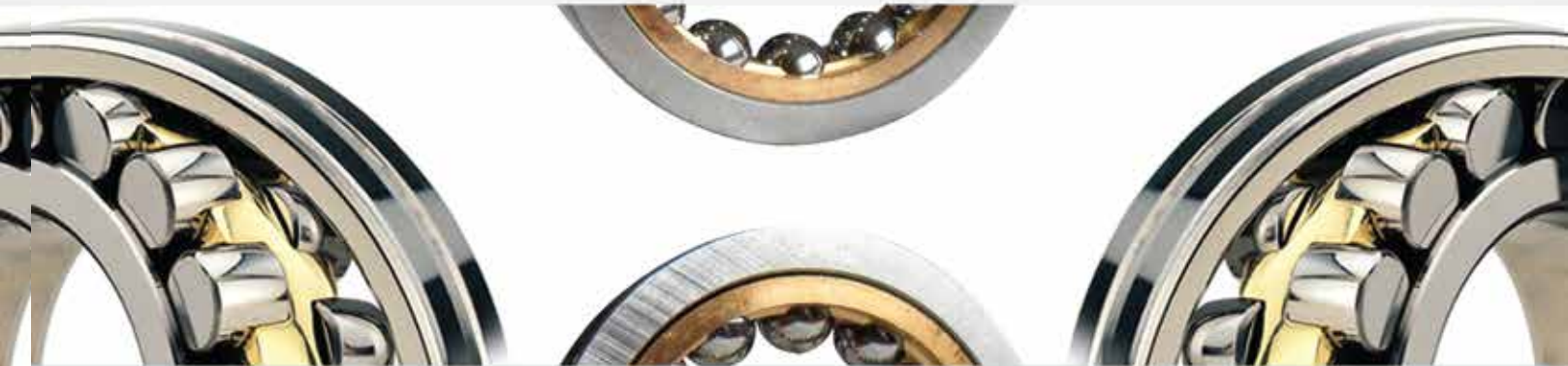
designed for an endless array of a wide range of industries applications to meet today's most demanding requirements.



We are totally committed to serve you with our GRANTT GREASE range that fully meet the highest standards of your needs in achieving this goal to reduce friction and to help prevent wear caused by direct surface-to-surface contacts.

With the highest standard of advanced technology, a full line of grease range is introduced that helps increase productivity, decrease downtime and extend the life of your machinery while providing cost-effective and trouble free maintenance.

Our objective is to provide you with the best grease range for specific applications that outperforms for smooth operation.



WHAT IS GREASE LUBRICANT?

Lubricating grease is defined as "a solid to semisolid" product of a dispersion of a thickening agent in a liquid lubricant that consisting of :

- ◆ Thickener
- ◆ Fluid Lubricant
- ◆ Additives

What are the functions?

- ◆ Reduces friction and wear.
- ◆ Help to protect against rust and corrosion.
- ◆ Preventing dirt build-up, water and other contaminants.
- ◆ Permits and maintain its moving motion.

GRANTT GREASE *WITH ADVANCED TECHNOLOGY* and enhanced protection for increased productivity



GRANTT HYBRID HEAVY GREASE

**EXCELLENT
WATER RESISTANT**

**EXCELLENT
MECHANICAL STABILITY**

**EXCELLENT
LUBRICATING PERFORMANCE**

SPECIFICATION : NLGI Dropping Point 2* 186°C

*EXCEEDS NLGI 2



NEW GREASE TECHNOLOGY

GRANTT HYBRID HEAVY GREASE is an advanced formulation grease with the cutting-edge lubrication technology. A multipurpose grease that gives superb performance in chassis lubrication and general industrial applications under non-extreme pressure, moderate load, speed and temperature.

BENEFITS

- Excellent water resistant
- Excellent mechanical stability
- Excellent lubricating performance
- Wider operating temperature compared to other conventional heavy grease
- Good pumpability properties

PACK SIZE

15kg (pail), 2kg (tub), 0.5kg (tub)

GRANTT PREMIUM LITHIUM COMPLEX GREASE



HIGH PERFORMANCE

GRANTT PREMIUM LITHIUM COMPLEX GREASE is a supreme quality lithium complex grease that provides shield against rust and corrosion, resistance to water washout and has extreme pressure properties.

GRANTT PREMIUM LITHIUM COMPLEX GREASE can be used for a wide range of functions and severe operating conditions such in general automotive and industrial applications where high temperature is required, industrial ball and roller bearing and rolling element bearing applications in moist environment.

BENEFITS

- Outstanding high temperature wheel bearing performance
- Excellent extreme pressure and anti wear performance
- Excellent oxidation stability
- Good water resistant
- Good protection against rust and corrosion
- High dropping point

PACK SIZE

15kg (pail), 2kg (tub), 0.5kg (tub)

SPECIFICATION :

NLGI Dropping Point

2

272°C



GRANTT LITHIUM MP EXTRA GREASE



HIGH PROTECTION

GRANTT LITHIUM MP EXTRA GREASE is a lithium multipurpose grease that offers outstanding oxidation stability. It also provides water resistant and protection against rust and corrosion.

GRANTT LITHIUM MP EXTRA GREASE is suitable for use in general automotive and industrial applications.

BENEFITS

- Excellent oxidation stability
- Good water resistant
- Protects against rust and corrosion
- Helps to extend component life

PACK SIZE

15kg (pail), 2kg (tub), 0.5kg (tub)

SPECIFICATION :

NLGI Dropping Point

2

197°C



GREASE INFORMATION

As technology progresses, greater extreme lubrication are expected in operating speeds along with wider temperature ranges. This increases the need for lubrication which can provide long life protection against friction, wear, rust and corrosion.

GRANTT GREASE PROVIDES-

- ◆ Performs in EXTREME OPERATING CONDITIONS.
- ◆ Reliable PROTECTION with potential for extend equipment life.
- ◆ EXCELLENT GREASE PERSISTENCE for reduced maintenance requirements.