

ENS Grease

Urea and Synthetic Oil-based Long Life Grease with Excellent High-Temperature Performance

ENS Grease is a long-life roller bearing grease with excellent properties at both low and high temperatures. It is blended from organic urea thickener, synthetic-ester base oil, and additives that provide outstanding antioxidation performance. ENS Grease can be used at high temperatures at which mineral-oil-based greases have very short lives.

● SPECIAL FEATURES

1. Excellent Heat Resistance

The thickeners in ENS Grease are urea compounds, so the grease has a high dropping point and little oil separation. As a result, it has excellent resistance to heat, so it can be used at high temperatures.

2. Outstanding Water Resistance

ENS Grease has low water washout, so it is very resistant to water.

3. Superb Rust Prevention

ENS Grease contains powerful rust inhibitors, so it prevents rust even in environments exposed to water.

4. Excellent Low-Temperature Properties

ENS Grease is blended with synthetic-ester base oil, so it can be used even at temperatures as low as -40°C .

5. Usable for Long Periods at High Temperatures

Because ENS Grease's synthetic-ester base oil has excellent oxidation stability, this grease can be used for long periods under high-temperature conditions.

● APPLICATIONS

ENS Grease is ideal for the following lubrication locations:

- (1) High-speed roller bearings used at low or high temperatures
- (2) Roller bearings in electric-powered machinery
- (3) Roller bearings in electrical components in automobiles
- (4) Roller bearings in drying furnaces
- (5) Roller bearings in blowers
- (6) High-speed roller bearings in machine tools

● CONTAINERS

16-kg pail can and 400 g bellows-type tube (20 pcs.)

● Typical Properties of ENS Grease


Appearance			Milky white, Semi solid
Thickener			Urea compounds
Base oil type			Synthetic-ester oil
Base oil viscosity	(40°C)	mm^2/s	30.5
Penetration	(25°C , 60 strokes)		276
Worked stability	(25°C , 100,000 strokes)		311
Dropping point		$^{\circ}\text{C}$	250 minimum
Oil separation	(100°C , 24 h)	mass%	0.4
Evaporation	(99°C , 22 h)	mass%	0.35
Oxidation stability	(99°C , 100 h)	kPa	25
Copper strip corrosion	(100°C , 24 h)		No color change
ASTM rust prevention	(52°C , 48 h)		Level 1 (no rust)
Water washout	(79°C , 1 h)	mass%	1
Low-temperature torque	(-30°C)		
Starting/Rotating		N.m	0.25/0.08
Bearing life (Soda test)	(6204 bearings, 150°C , 10,000 rpm)	h	2,253
Approx. operating temperature range		$^{\circ}\text{C}$	-40 to 175

Note: The typical properties may be changed without notice. (March 2024)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Thickener, Additives
Hazard pictograms:	
Signal word:	Warning
Hazard Statement:	May cause an allergic skin reaction. May cause damage to organs (blood systems). Toxic to aquatic life Toxic to aquatic life with long lasting effects.
Precautionary Statements:	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• Wear protective gloves/protective clothing/eye protection/face protection.• Do not allow the eyes to become exposed to the product. Do not swallow the product.• Avoid release to the environment.• Contaminated work clothing should not be allowed out of the workplace.• Do not breathe dust/fume/gas/mist/vapours/spray.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER/doctor.• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.• IF ON SKIN: Wash with plenty of soap and water.• If skin irritation or a rash occurs: Get medical advice/attention.• Collect spillage.• Take off contaminated clothing and wash it before reuse.
Storage	<ul style="list-style-type: none">• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.• Containers that have been opened must be tightly sealed.• Store locked up.
Disposal	<ul style="list-style-type: none">• Dispose of contents/container in accordance with local/regional/national/international regulations.• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.