

ENS Grease

Urea-Synthetic High-Temperature Long-Life Grease

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 oxidative 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 cans, 400 g bellows-type tube (20 pcs.)

● Typical Properties of ENS Grease

Thickener			Urea compounds
Base oil			Synthetic-ester oil
Type			31.5
Kinematic viscosity	(40°C)	mm ² /s	267
Penetration	(25°C, 60 strokes)		310
Worked stability	(25°C, 100,000 strokes)		250 minimum
Dropping point		°C	1.9
Oil separation	(100°C, 24 h)	mass%	0.38
Evaporation	(99°C, 22 h)	mass%	30
Oxidative stability	(99°C, 100 h)	kPa	No change
Copper strip corrosion	(100°C, 24 h)		0.4
Water washout	(79°C, 1 h)	mass%	Level 1 (no rust)
ASTM rust prevention	(52°C, 48 h)		0.15
Low-temperature torque	-30°C	N.m	0.02
Starting			
Rotating			
Bearing life	Soda test (6204 bearings, 150°C, 10,000 rpm)	h	2,253
Approx. operating temperature range		°C	-40 to 175

Note: The typical properties may be changed without notice. (June 2002)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Thickener, Additives
Precautionary pictograms:	
Signal word:	Warning
Hazard Statement:	May cause allergic skin reaction May cause damage to organs (or state all organs affected(blood systems))
Precautionary Statements: Prevention	<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.• 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 or doctor/physician.• 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 exposed or concerned : Call a POISON CENTER or doctor/physician.• Take off contaminated clothing and wash before reuse.• If skin irritation or a rash occurs: Get medical advice/attention.
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.