

# GREASTAR GREASE

## Grease for centralized lubrication system of large vehicles

**GREASTAR GREASE** uses highly refined mineral oil as base oil and carefully selected additives such as antioxidants and extreme pressure agents, and is for centralized lubrication system of large vehicles. **GREASTAR GREASE A** uses calcium soap as a thickener, which is excellent in water resistance. **GREASTAR GREASE B and C** use lithium soap as a thickener, which is excellent in shear stability, water resistance, heat resistance, etc.

### ● SPECIAL FEATURE

1. Since its apparent viscosity is low, it is easy to pump and is ideal for centralized lubrication system.
2. **GREASTAR GREASE** has excellent water resistance that it is not easily rinsed off even when it comes in contact with water and is not easily softened even if it is mixed with water.

### ● APPLICATIONS

Centralized lubrication system of large vehicles.

### ● TYPES AND USAGE

**GREASTAR GREASE A:** for general use

**GREASTAR GREASE B:** under relatively high temperature.

**GREASTAR GREASE C:** under low temperature.

### ● CONTAINERS

	A	B	C
16-kg pail can	✓	✓	✓
300g tube (48 pcs.)	✓	✓	
900g bellows-type tube (15 pcs.)	✓		

### ● TYPICAL PROPERTIES OF GREASTAR GREASE

Types		A	B	C
NLGI grade		00	0	00
Thickener type		Ca soap	Li soap	Li soap
Appearance		Light brown, Semi solid	Light brown, Semi solid	Light tan, Semi solid
Base oil type		mineral oil	mineral oil	mineral oil
Base oil viscosity (40°C)	mm <sup>2</sup> /s	222	134	31
Base oil viscosity (100°C)	mm <sup>2</sup> /s	-	13.2	4.7
Penetration (25°C, 60 strokes)		414	367	406
Dropping point	°C	97	186	180
Evaporation loss (99°C, 22h)	mass%	-	0.3	6.1
Copper strip corrosion (100°C, 24 h)	pass	pass	pass	pass
Humidity cabinet test (14days)			A	A
Apparent viscosity (-10 °C, 10s <sup>-1</sup> )	Pa.s	72	82	22
Operating temperature range (approx.)	°C	-10 to 70	-10 to 100	-25 to 100

Note: The typical properties are subject to change without notice. (Feb.2023)




## Handling Precautions

▼ Follow these precautions when handling this product.

### GREASTAR GREASE A, B

<b>Composition :</b>	Base Oil(s), Thickener, Additives
<b>Hazard pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Harmful to aquatic life Harmful to aquatic life with long lasting effects
<b>Precautionary Statements:</b> <b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Avoid release to the environment.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>

**GREASTAR GREASE C**

<b>Composition :</b>	Base Oil(s), Thickener, Additives
<b>Hazard pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	May be fatal if swallowed and enters airways
<b>Precautionary Statements:</b>	<ul style="list-style-type: none"> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> </ul>
<b>Prevention</b>	
<b>Response</b>	
<b>Storage</b>	<ul style="list-style-type: none"> <li>• IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>• IF ON SKIN: Wash with plenty of soap and water.</li> <li>• Do NOT induce vomiting.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>• Containers that have been opened must be tightly sealed.</li> <li>• Store locked up.</li> </ul>
	<ul style="list-style-type: none"> <li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>