GRS-7006-2504E

SEALNOC GREASE

Tail seal grease for shield excavators

There is a shielding method using a shield machine as a typical construction method of tunnel excavation. **SEALNOC GREASE** is a dedicated grease for tail seal developed for the prevention of invasion of water and back-filling injection material from tail seal part of shield machine.

• SPECIAL FEATURES

 Excellent water barrier at tail seal part of shield machine

SEALNOC GREASE contains multiple agents with extremely strong water-blocking, so it exhibits excellent water barrier even at high water pressure.

2. Excellent pumpability

SEALNOC GREASE (SP(N) for replenishment, **CR** and **BD**) is a grease that is easy to pump due to the low pressure loss in the hose piping.

3. Excellent adhesion property

SEALNOC GREASE has superior adhesion property and is economical with less flow out and drip when hand-filled or pump-filled.

- 4. Difficult to softening when mixed with water When water is mixed in, SEALNOC GREASE is hard to get soften and it's penetration change is small.
- 5. Delay hardening when in contact with backfilling injection material

SEALNOC CR exerts excellent retardation effect against hardening of back-filling injection material. When the back-filling injection material is mixed in the brush part of the tail seal, **SEALNOC CR** prevents the solidification of the brush and keeps water blocking performance by delaying the hardening of the back-filling injection material. (CR stands Cement hardening Retarding.)

 SEALNOC BD is biodegradable and is registered as an Eco Mark product (Eco Mark certification number 19 110 007). (BD stands Biodegradable.)

APPLICATIONS

SEALNOC GREASE has excellent water barrier, so it can be used for the following applications.

- (1) Tail seal part of various shield machines
- (2) Bent seal part of bent shield machines
- (3) Seal part of various submersible machines

FILLING PUMPS

We recommend using the following pumps to fill **SEALNOC GREASE**.

- (1) HEISHIN Ltd. Heishin 2NTL 20-pail pump
- (2) Yamada Corporation SR140PWAL-F•T Series (for pails)
- (3) SKF #2024 (for pails) #2077 (for drums)

LINE UP

There are four kinds of **SEALNOC GREASE**, **FP, SP (N), CR, BD** and they are selected according to usage conditions.

•TYPICAL PROPERTIES OF SEALNOC GREASE

SEALNOC	FP	SP(N)	CR	BD
Applications	For initial filling	For supply and initial filling	Hardening-retarding type of SP (N)	For supply and initial filling
Characteristic	Ideal for initial filling of shield machine	Can also be used as initial filling for small diameter shield machine	Ideal for supply to the shield machine. It has an effect of delaying the hardening of the back filling material.	Environmentally friendly type with biodegradability
Appearance	Light yellow, Semi solid	Light yellow , Semi solid	Light yellow , Semi solid	White, Semi solid
Penetration (UW)	200	240	238	232
Density (25 °C) g/cm ³	1.3	1.2	1.1	1.0
Copper strip corrosion (100°C, 24h)	No change to green or black	No change to green or black	No change to green or black	No change to green or black
Water Pressure Test* MPa	3.5 or more	3.5 or more	3.5 or more	3.5 or more
Containers 180kg-drum	No inner bag	With inner bag	With inner bag	With inner bag
16kg-pail can	No inner bag	With inner bag	With inner bag	With inner bag

*Water Pressure Test of Tail Seal Grease for Tunnel Shield Machine
Note: The typical properties may be changed without notice. (November 2022)



Handling **Precautions**

▼ Follow these precautions when handling this product.

SEALNOC FP, SP(N)

Composition :	Base Oil(s), Thickener, Additives
Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.
Prevention	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.
	Wash hands thoroughly after handling.
	• Do not eat, drink or smoke when using this product.
Response	• 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.
Storage	• 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.
Disposal	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.

SEALNOC CR, BD

Composition:	Base Oil(s), Additives	
Hazard pictograms:	Not applicable	
Signal word:	Not applicable	
Hazard Statement:	Not applicable	
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.	
Prevention	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.	
	Wash hands thoroughly after handling.	
	• Do not eat, drink or smoke when using this product.	
Response	• 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.	
Storage	• The product must be stored in a cool, well-ventilated location where it will not be exposed	
	to direct sunlight.	
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