

K-OIL PLUNGER PL-550

1. Summary

PLUNGER PL-550 uses highly refined base oil with high viscosity index and stability.

And it provides great performance as lubricant and hydraulic media, as it is properly added with various additives such as high quality anti-wear agent, rust preventive additive, etc.

With superb antioxidant added, it shows reduced deterioration during use and high stability.

It is a wear-resistant hydraulic oil which can be widely used in applications ranging from hydraulic equipments under severe conditions involving high speed, high temperature and high pressure to the general lubricating and hydraulic usages.

It is capable of product quality enhancement, cost reduction and productivity improvement.

2. Features

1) It uses high-class base oil with high viscosity index.

Using the base oil with high viscosity index results in little change in its viscosity despite temperature shift and prevents damage to the oil film due to high temperature, extending the service life of the product in use.

2) It has excellent load-bearing capacity and mechanical stability.

It is added with special additive so that it can withstand high load and high-impact load without damage to the lubricating film.

3) It is low in skin irritation and odor.

It achieves low degree of skin irritation and odor by using highly refined base oil.

4) It has low pour point.

Its low pour point enables it to operate smoothly even in low-temperature working environment.

5) It has excellent rust preventive ability.

Using high-performance rust preventive additive, it is advantageous in protecting facilities.

6) Its good oxidation stability enables long service life.

It reduces the deterioration of the product in use and enables long-term usage by using superior antioxidant.

3. Typical properties

Item	Specifications
Appearance	Pale yellow and transparency
Specific gravity(15/4°C)	0.89
Kinematics viscosity (40°C, cSt)	460
Flash point (°C)	220
Viscosity Index((V.I)	113
Pour Point (°C)	-30 ↓

※ The description of the product is the data measured with our company's testing method.

4. Recommended concentration for use

- 1) Hydraulic presses, forging machines, general machine tools and industrial machinery.
- 2) Injection molding machines, extruding machines and plastic processing machines.
- 3) Various hydraulic equipments at industrial sites.

5. Usage.

- 1) Use the undiluted solution as it is.
- 2) When transfusing product for the first time.
 - ① Completely remove the oil currently being used from the tank.
 - ② Clean the inside of tank so that no contaminated product and contaminants like tramp oil, chip, etc. remains.
 - ③ Neatly clean the inside and surroundings of equipment as well as inside the plumbing so that no residue of used oil, tramp oil, chip, etc. remain.
 - ④ Put a little amount of product to be applied to execute overall cleaning.
 - ⑤ If sensitive to the skin, please apply skin protection cream before commencing work.

6. How to manage the currently used oil.

- 1) Please prevent the mixing of moisture.
- 2) If the oil temperature is too high, please stop the working until it cools down.
- 3) The chip and tramp oil being mixed should be regularly removed.
- 4) Please be careful not to use it together with other product, as it could cause trouble.

In case it happens, Please be sure to check with the product supplier to see if it's OK before using it.

- 5) Depending on the necessity, the sludge had better be left as it is for a day before removal.
- 6) Dust collecting system is needed to prevent mist and smoke.

- 7) In case materials, processing method or tools are changed, please be sure to discuss with product supplier before using them.
- 8) If problem occurs while using the product, please be sure to discuss with product supplier.
- 9) The used oil must be regularly analyzed.
- 10) If insoluble product is used throughout all the processes, the product should be removed as much as possible.

7. Instructions.

1) Harmfulness.

- ① Swallowing it into the respiratory tract could be harmful.
- ② Inhaling it could be harmful.
- ③ It could irritate the respiratory organs.
- ④ It could irritate the skin in contact.
- ⑤ It could have long-term harmful effect on aquatic organisms.
- ⑥ If unusual symptoms show up in your body, immediately get doctor's help.

2) When handling it.

- ① Please be sure to read through the instruction manual before using it.
- ② When using the product, never try eating, drinking or inhaling it.
- ③ When handling the product, please use protective gears such as rubber gloves, etc.
- ⑤ Heating it up directly could start a fire.
- ⑥ Please do not mix it with combustibles.
- ⑦ Keep it away from inflammables at all times and beware of fire.

3) After Handling it.

- ① When going to the bathroom, having a meal or leaving work, please wash your hands thoroughly.
- ② The clothes worn during working should be laundered separately from other clothes.

8. Storage method.

- 1) After use, please seal it and then store it in dry place.
- 2) Please store it in the indoor place without any heat source or direct sunlight.
- 3) To prevent moisture from getting mixed, it should be stored by being laid on the side.

9. Discarding.

The vessel and the content should be discarded according to the details specified in the relevant regulations.

10. Validity.

Within one year from the manufactured date.

11. Packing unit.

20 liter and 200 liter.