

# VACUUMPLUS SERIES



## Product Description

VACUUMPLUS SERIES is specially blended from high viscosity index & hydro – finished base stock. It has been formulated from very high IBP base stock considering the problem of oil vaporisation during the operation which results in to drop in attained vacuum. Its high degree of stability makes it usable in chemical plants where normal anti-wear lubricants are not advisable. This oil is specially developed product which has low vapour pressure and good thermal stability property.

## Applications

VACUUMPLUS SERIES of oil is recommended for use in vacuum producing diffusion pumps. It is also recommended for use in chemical Industries.

## Performance Standard

GOST 23013 -78

## Benefits

- Excellent detergent & dispersant properties.
- High thermal stability.
- High oxidation stability.
- Compatible with many chemicals.
- Excellent anti-wear properties.
- No tendency to lacquer or sludge formation.
- Low vapor pressure properties.
- Excellent corrosion protection.
- Extended oil drain intervals.
- Reduced operating cost.

## Typical Properties

PROPERTIES	68	100	120	150	220
Appearance	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear
Specific Gravity	0.86 to 0.91	0.86 to 0.91	0.835	0.86 to 0.91	0.86 to 0.91
Kinematic Viscosity @ 40 <sup>o</sup> C, cSt	64-72	95-105	110-120	145-155	210-230
Viscosity Index, (Min)	100	100	100	100	100
Flash Point, <sup>o</sup> C	230	240	240	245	245
Vapour Pressure @20 <sup>o</sup> C, mm of Hg, Max	1×10 <sup>-6</sup>	1×10 <sup>-6</sup>	1×10 <sup>-6</sup>	1×10 <sup>-6</sup>	1×10 <sup>-6</sup>
Rust Prevention	Pass	Pass	Pass	Pass	Pass

**Available Packs: 5, 20, 50 and 210 Litres.**

**Shelf Life: 36 Months from manufacturing month.**

\* All related specifications are meets or exceeds. Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

**PETRELPLUS INC.**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product** VACUUM OIL  
**Supplier** PETRELPLUS INC.  
 One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
 Call # +91 22 6216 7072  
 (Monday to Friday)  
 Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

**2. COMPOSITION**

Contains petroleum base oils and proprietary performance additives. This product is not considered to be hazardous and does not contain hazardous components.

**3. HAZARDS IDENTIFICATION**

Main hazard -Not classified as a dangerous preparation according to 1999/45/EC  
 Adverse human health effects -None under normal conditions.  
 Environmental hazards -No specific risk for the environment.

**4. FIRST-AID MEASURES**

Inhalation -Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.  
 Ingestion -DO NOT INDUCE VOMITING. Seek medical attention immediately.  
**Note to physician** - If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishers -Water fog, Carbon dioxide, Dry chemical, Foam, Sand.  
 Extinguishers not to be used -Do not use a heavy water stream.  
 Surrounding fires -Use water spray or fog for cooling exposed containers.  
 Protection against fire -Do not enter fire area without proper protective equipment, including respiratory protection.  
 Special procedures -None Identified.

**6. ACCIDENTAL RELEASE MEASURE**

Personal protection -Keep public away from danger area. Wear recommended personal protective equipment. Equipment clean-up crew with proper protection.  
 Environmental precautions -Prevent entry to sewers and public waters. Notify authorities if precautions liquid enters sewers or public waters.  
 Clean up method -Clean up any spills as soon as possible, using an absorbent leakage material to collect it. Collect spills and put it into appropriate container. Use suitable disposal containers.

**7. STORAGE AND HANDLING**

General -No naked lights. No smoking. Keep away from sources of ignition.  
 -Handle in accordance with good industrial hygiene and safety and storage procedures.  
 Handling -Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.  
 Storage -Keep container closed when not in use. Keep only in the original container in a cool, well- ventilated place.  
 Keep at temperature not exceeding 45 deg C.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

Respiratory protection -No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.  
 Hand protection -Use neoprene or rubber gloves.  
 Skin protection -No special clothing/skin protection equipment is recommended under normal conditions of use.  
 Eye protection -Use Safety glasses.  
 Industrial hygiene -Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. When using, do not eat, drink or smoke. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	- Bright & Clear Fluid
Kinematic Viscosity at 40°C, cSt	- (68 to 220)
Flash point, COC, °C	-(230 to 245)
Rust Prevention	- Pass

## 10. STABILITY AND REACTIVITY

Physico-chemical stability	-Stable
Conditions to avoid	-Open flame. Sparks. Overheating.
Materials to avoid	-Oxidizing agents. Strong acids, bases.
Hazardous decomposition products	-Carbon dioxide, Carbon monoxide, hydrogen sulfide
Hazardous reactions	-None under normal conditions.
Hazardous Polymerization	-Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	-Not expected to be toxic.
Inhalation	-Practically Non -Toxic
Dermal	-Not expected to be a primary skin irritant.
Ingestion	-Practically Non -Toxic
Eyes irritation (rabbit)	-Non- Irritating
Chronic toxicity	-Not expected to be toxic.
Sensitization	-No sensitization effects known.
Mutagenicity	-Not expected to be a mutagenic hazard

## 12. ECOLOGICAL INFORMATION

Ecological effects	-No specific risk for the environment.
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## 13. DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations.

## 14. TRANSPORT INFORMATION

General information	-Not regulated
UN No.	-Not regulated
ADR/RID	- Not regulated
IMO-IMDG code	- Not regulated
ICAO/IATA	-Not regulated

## 15. REGULATORY INFORMATION

Symbol(s)	-Not applicable
Phrase(s)	- Not applicable
Phrase(s)	- Not applicable

## 16. OTHER INFORMATION

For specific or detailed Technical Data for this product, please contact on the number provided.