

Final Product Research Form

No:1072

Date: 2023 - 03 - 14

Attachment:



Base oil

This substance is the most widely used raw material and it is the constituent of motor oil and industrial and automotive lubricants, which are called base oil. Its share in the product sometimes reaches 97 percent. Base oil is the name given to lubricating grade oils that are first produced from the refining of crude oil (mineral base oil) or through chemical synthesis (synthetic base oil).

Most of the base oil used in the production of lubricants is obtained from petroleum sources, and in fact, the base oil industry is considered as a part of the petroleum industry. The main components of petroleum-based oils, which also affect the properties of the oil, are paraffinic, naphthenic and aromatic compounds.

Base oils are used to produce products such as lubricating greases, motor oils, and metalworking fluids. Different products require different oils and ingredients. One of the most important factors is the viscosity of the liquid at different temperatures. Whether the crude oil is suitable for making it into a base oil or not is determined by the concentration of base oil molecules and the ease of these extractions.

Some of the most important properties of base oil are viscosity limits and viscosity index, pour point, oxidation and thermal stability, aniline point (a measure of the base oil's solubility in relation to other substances, including additives) and hydrolytic stability (lubricant resistance). Chemical decomposition in the presence of water

The American Petroleum Institute (API) has classified base oils into five groups. The first three groups are obtained from refining crude oil.

Group I base oils are classified as having less than 90% saturation, more than 0.03% sulfur and with a viscosity range of 80 to 120. The distillation range of these oils is from 32 to 150 degrees Fahrenheit. Group I base oils are solvent refined, which is a simpler refining process. Among the base oils of group 1, the following can be mentioned: ((SN-150/SN 300/SN 500/SN 600/SN 900))


SN 150 base oil is known as a light base oil at the lower end of the grade 1 light base oil specification. It is mostly used in the production of lubricant additives. This is a Group I base oil that has gone through solvent purification processes. To complete the refinement, the hydrogen was purged to remove any impurities

SN500 base oil, which is very effective in the industry. This base oil is the result of solvent extraction and waxing processes, and this base oil is used as one of the best Group I oils in the formulation of gasoline and diesel engine oils, industrial lubricants,

Pictures of samples






Technical Specification

| product | Density (g/cm ³) | Viscosity at 100°C | Flash point (°C) | Price (\$/MT) |
|---------|------------------------------|--------------------|------------------|---|
| Sn 150 | 0.860 – 0.870 | 4 – 5.5 | 180 - 190 |  |
| Sn 500 | 0.880 – 0.890 | 8 - 9 | Min 240 | |

Legal feasibility of export

This product is not legally prohibited for export.

Product price and currency conversion rate

| product | Price (\$/MT) | Weight (Mt) | Total price (\$) |
|---------|---|-------------|---|
| Sn 150 |  | 48 |   |
| Sn 500 | | 48 | |

- Exchange Rate: 469,000 R/\$

Other Description

Shipping & Clearance:

- Origin: Iran, Tehran
- Destination: Lebanon, Beirut

Storing and Transportation:

- FlexiTank Container