



INTRODUCTION TO PETROLEUM PRODUCTS

Petroleum products are materials derived from crude oil (petroleum) as it is processed in oil refineries. These products are complex mixtures, and they include several classes of fuels. Here's a list of some petroleum product groups and their technical nomenclature:

1. **Gasoline (Petrol):** Used as fuel for internal combustion engines. Its chemical formula is typically C_8H_{18} .
2. **Diesel Fuel:** Used in diesel engines. Its chemical composition varies, but it mainly consists of hydrocarbons.
3. **Jet Fuel:** Used for aviation and heating. Its chemical formula is typically $C_{12}H_{26}$.
4. **Liquefied Petroleum Gas (LPG):** Composed of propane and butane. Used for cooking, heating, and as a fuel in vehicles.
5. **Fuel Oil:** Used for heating and power generation. Has different grades (e.g., No. 1, No. 2, No. 6).
6. **Asphalt:** Used for road construction. It's a heavy, thick petroleum product.
7. **Bitumen:** Similar to asphalt, used in road construction and roofing.
8. **Naphtha:** Used as a solvent and in petrochemical production.
9. **Lubricating Oils and Greases:** Used for lubrication in machinery.
10. **Paraffin Wax:** Derived from petroleum, used for candles and other applications.

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PETROLEUM PRODUCTS & THEIR DETAILED NOMENCLATURE

1. Diesel: EN 590, 10 PPM, Euro 5 Standard; ULSD 10.
2. Diesel Gas D2, Euro 4: 50 PPM: GOST 305-82.
3. Diesel D6 Virgin Low Pour Fuel Oil:
4. Aviation Kerosene or Fuel: Jet A-1, Complies with U.K. DEF STAN 91-91.
5. Aviation Kerosene or Fuel: Colonial Grade: JP 54, TS-1: GOST 10227-86
6. Gasoline, Unleaded Petrol: Octane 95, 93, 91, 76, 72.
7. Automotive Gas Oil (AGO): GOST 305-82 - HSD2 GAS OIL L-0.2-62.
8. Ultra Low Sulphur Diesel Fuel Oil (ULSFO): 1 %, Euro Standards.
9. Mazut – M 100: GOST 10585-2013; Previously 10585-75or99.
10. LNG, Liquified Natural Gas: 5542-87: GOST 20448-90
11. Light Cycle Oil (LCO).
12. Petroleum Coke: GOST 22898, Green, Calcined or Uncalcined Pet-Coke Type KNPS GOST 10200-73, Medium Temperature Hard Coal Pitch, Type A.
13. Fuel Oil (IFO): CIFICST 180; CIFICST 180; CST 180; MTCST 280; MTCST 380.
14. Base Oil SN 500: SN 100; MTBS 150; MTSN 150; MTSN 300; MTSN 500.
15. Marine Gas Oil (MGO).
16. Marine Diesel Oil (MDO).
17. Ethylene Tar:
18. ESPO Crude Oil:
19. REBCO Crude Oil (Urals Crude Oil / Export Blend).
20. Light Crude Oil.
21. Heavy Crude Oil
22. Bitumen 60/70: GOST 22245-90, Viscous Road Oil Bitumen.
23. Ethylene Tar:
24. Urea Prilled.
25. Urea Granular, N 46%.
26. Sulphur Granules.
27. Di-Ammonium Phosphate (DAP).
28. Granular Mono-Ammonium Sulphate (MAP).
29. Rock Phosphate.
30. Fertilizer NPK.
31. Single Sulphur-Phosphate (SSP): GOST 2081-92.
32. Methanol.
33. Benzene.
34. Naphtha.
35. Toluene.
36. M-Xylene.
37. P-Xylene.

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