

Aerna Chemical
leading in Oil, Gas
& Petrochemical



IMPORT & EXPORT

PETROLEUM TRADING SERVICES

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Arena Chemical at a glance:

With a professional sales and commercial team, we, Arena Chemical, are one of the leading Turkish petrochemical trading companies being expertise in the supply of polymer grades through the international market.

Having been registered in the major petrochemical complexes and main holdings, we are honored to offer a vast range of polymer grades to different markets including but not limited to CIS, Russia, Europe, GCC and etc.

With the respect of long-term business in the market of polymer and petrochemical products, our technical and professional team empowers us to provide supply services to our customers in a very global scale so they can experience the high-quality services.



Mission & Vision

To provide the best services to our customers, we are in position to

- Supply the Petrochemical grades directly from the manufactured petrochemical complexes with engineered sale process.

Being registered in many petrochemical companies, we are able to attend the tenders and make safe purchase on behalf of the customers.

- Produce compound polymer and engineered polymers.
- Arrange logistics and engineered transportation services to our customers from the plant to their final destination. Considering the most economical way for our customer, our skilled and experienced logistics team enables us to offer the best delivery to our customers. Our offices and representatives in different cities and countries enable us to offer mixed logistics as well.
- With all our facilities and partners , our customer can experience a very swift and safe way of payment for every single order they have from us. We are able to get the payments in many countries like UAE, Turkey, China, Canada and etc in different currencies.



EXPORT & IMPORT

We possess the global strength to both sell and purchase a wide variety of raw materials and equipment for different industries by having affiliated offices in different countries. Our expert trading teams have many experience sourcing products from a variety of domestic producers and manufacturers and finding the lowest prices. Our activities have been mainly in the following fields:

- Chemicals
- Polymers
- Petroleum products
- Fertilizers

Bitumen

Grade: Bitumen60/70-Bitumen85/100

Physical Characteristics: Solid- Semi Solid

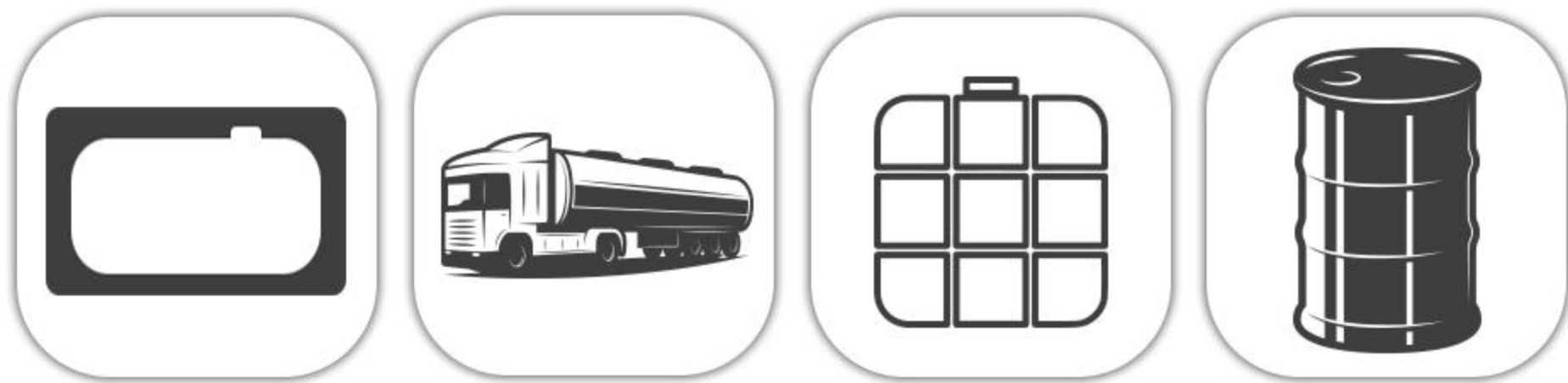


1-1-Bitumen(Penetration Grade)

Grade	Density@25 C(kg/m)	Penetration@25 C(mm/10)	Flash Point C
Bitumen 60/70	1.01-1.06	60 - 70	230 MIN
Bitumen 85/100			

Packing:

- Bulk
- Drum
- Jumbo Bag
- Flexi Bag



Application:

- Road
- Roofing
- Paint color
- Printer ink...



Bitumen(Viscosity-grade)

Grade: Bitumen VG10-VG20-VG30-VG40

Physical Characteristics: Solid- Semi Solid



- VG-10:**

 - instead of 80/100 penetration bitumen grade. Bitumen Emulsion
 - Modified Bitumen products.

VG-20:

 - cold climate & high-altitude regions.

VG-30:

 - construct extra heavy-duty Bitumen pavements.
 - instead of 60/70 penetration bitumen grade.

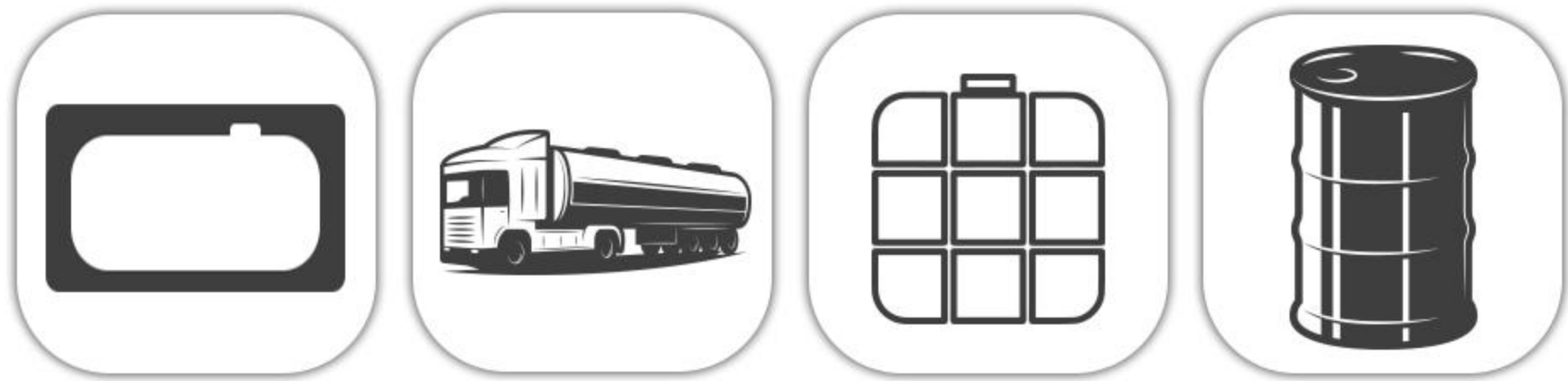
VG-40:

 - instead of 30/40 penetration grad.

Grade	Absolute viscosity at 60°C,Poises	Penetration at 25°C(100g,5s)	Specific Gravity@ 27/27°C	Flash Point (Cleveland open Cup),°C
Bitumen VG10	Min 800	800 - 100	Min 0.99	Min 220
Bitumen VG20	Min 1600	60 - 80	Min 0.99	Min 220
Bitumen VG30	Min 2400	50 - 70	Min 0.99	Min 220
Bitumen VG40	Min 3200	40 - 60	Min 0.99	Min 220

Packing:

- Bulk
- Drum
- Jumbo Bag
- Flexi Bag



Application:

- Viscosity Grade Asphalt
- surface-dressing
- paving in a very cold climate
- bitumen emulsion
- modified bitumen products



Base oil

Grade: Base oil (SN150, SN500, SN350, ...)

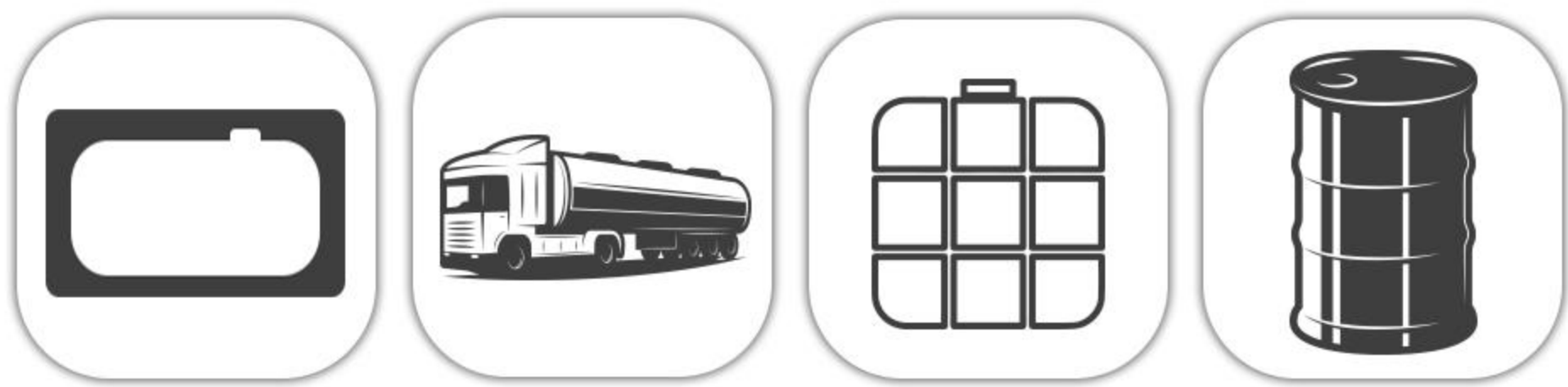
Physical Characteristics: Liquid



Grade	Viscosity Index (VI)	Density at 15°C kg/m3	Flash Point°C
SN 150	90min	880	200min
	90min	870	205
SN500	Min 87	893	Min 235
	MIN 90	885	265

Packing:

- Bulk
- Drum
- Jumbo Bag
- Flexi Bag



Application:

- Gasoline and diesel engine oils
- Bi-fuel and gas engine oils
- Industrial lubricants
- Grease and special products



Paraffin Wax

Grade: Paraffin Wax (0-0.5%,1-3%, 3-5%,...)

Physical Characteristics: Solid



Grade	Oil Content(wt%)	Melting point °C
Paraffin Wax 0.5-1%	0.5 - 1	56 - 58
Paraffin Wax 1-3%	Max 2	59 - 65
	< 1.5	58 - 62
Paraffin wax 3-5%	3-5	60 - 65
	3-5	60 - 67

Packing:

- Carton(25kg,30kg)



Application:

- Water-resistant cloths
- Candles
- Cosmetics
- Coatings
- Matchmaking
- insulation material



Slack Wax

Grade: Slack Wax(Heavy, Light)

Physical Characteristics: Solid



Grade	Viscosity at 100°C (cst)	Oil Content(% wt)	Melting Point (°C)
Heavy Slack Wax	6 - 7.5	7 - 11	56 - 65
Light Slack Wax	3 - 6	3 - 8	55 - 60

Packing:

- Metal Drum



Application:

- Candle Production
- Wax emulsions
- Textile industries
- Insulation and glass wool
- Paraffin wax production



Petroleum solvents(SOLVANT(402))

Grade: 402

Physical Characteristics: Liquid-colorless



Grade	Density @15°c	Sulfur Total (wt%)
Solvent 402	775 min	0.1 max
	795 - 810	0

Packing:

- Bulk
- Drum



Application:

- Rubber
- Plastic shoes
- Tire rubber solvent oil
- Solvent oil used in paints,
- Coatings paint
- Washing solvents
- Cleaning and degreasing machine tools and parts
- Thread cutting and reaming lubricant
- Automotive fuel
- Oil additives



SOLVANT(502)

Grade: 502

Physical Characteristics: Liquid-colorless



Grade	Density @15°c, gr/cm3	Sulfur Total (wt%)
Solvent 502	0.8099	0.001 max

Packing:

- Bulk
- Drum



Application:

- Oil solvent
- Paint
- Hydrocarbons,...



Gasoline
Chemical Formula: C8H18
Physical Characteristics: Liquid



Grade	Specific Gravity at 15.56/15.56	Sulfur Total (wt%)	Gum (mg/100ml)
A80	0.7-0.75	10 MAX	wash:0.5-Unwash:6.6
A92	0.7579	0.75	---

Packing:

- Bulk
- Drum



Application:

- Vehicles lawnmowers
- Leaf blowers
- Small boat motors,...



Octane Enhancer (MTBE)
Methyl tert-butyl ethe
Chemical Formula: C₅H₁₂O
Physical Characteristics: Liquid- colorless



Grade	MTBE Purity(wt%)	C4 (wt%)
MTBE	MIN98	MAX 0.5

Packing:

- Bulk
- Drum



Application:

- Gasoline
- High purity isobutylene
- Pharmaceuticals industry
- Chromatographic eluent
- Therapeutic agent for in vivo dissolution of cholesterol gallstones in humans



Gasoil
(D2, Light Hydrocarbon, Heavy Hydrocarbon)
Chemical Formula: D2
Physical Characteristics: Liquid- Clear



Grade	Specific Gravity at 15.56/15.56	Sulfur Total (wt%)	Gum (mg/100ml)
A80	0.7-0.75	10 MAX	wash:0.5-Unwash:6.6
A92	0.73-0.76	10 MAX	wash:0.5-Unwash:6.6
	0.7579	0.75	---

Packing:

- Bulk
- Drum



Application:

- Diesel Motor Fuel



Light Hydrocarbon

Grade: Light

Physical Characteristics: Liquid- Light Brown Liquid



Grade	Density @ 15 °c	Sulfur Content(ppm)
Light Hydrocarbon	793.3	5480
	765	150

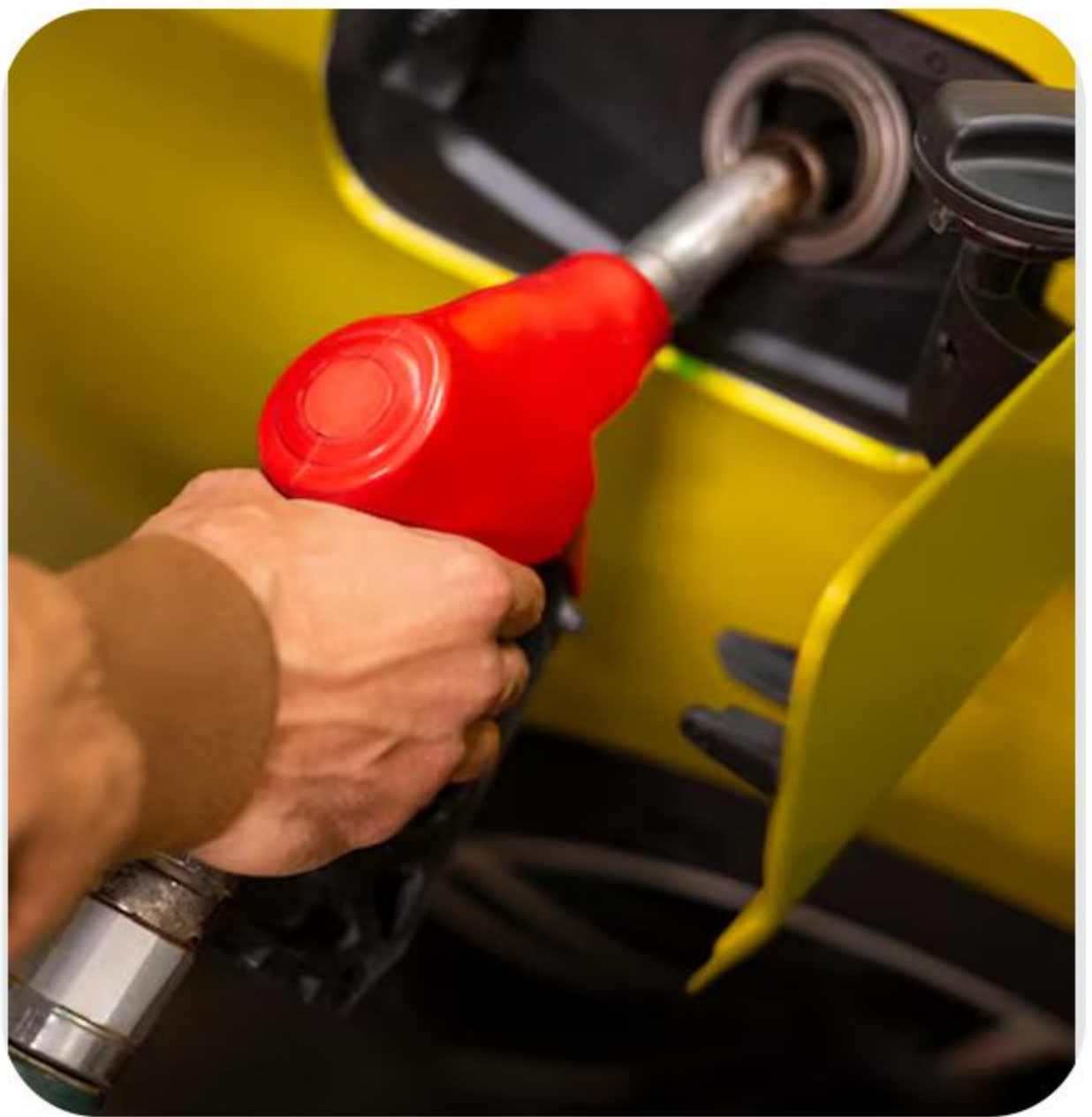
Packing:

- Bulk
- Drum



Application:

- Thinner
- Paint
- Fuel



Heavy Hydrocarbon

Grade: Heavy

Physical Characteristics: Liquid



Grade	Density @ 15 °c	Sulfur Content (ppm)
Heavy Hydrocarbon	0.7800-0.8400	1800 Max
	820(±5%)	---

Packing:

- Bulk



Application:

- Domestic and industrial burners
- Internal combustion engines
- Mid-distillation fuels of oil refineries



Mazut (180 CTS, 280 CTS, 380 CTS)

Grade: Mazut)180 CTS, 280 CTS, 380 CTS)

Physical Characteristics: dark brown or Black



Grade	Density @ 15 °c (Kg/m3)	Sulfur Content) %m)	Flash Point °c
Mazut 180 CTS	990 max	3	60 min
Mazut 280 CTS	970 max	3.5 max	65 min
Mazut 380 CTS			

Packing:

- Bulk



Application:

- Bath furnaces
- Bakery ovens
- Diesel engines
- Power plants



Naphtha (Light, Heavy)
Light Naphtha
Grade: Light
Physical Characteristics: Liquid



Grade	Specific Gravity at 15 °C	Sulfur Total (wt%)	Gum (mg/100ml)
Light Naphtha	0.7000 MAX	Max 0.03	2max
	0.6625	1	---
	640-700	Max 0.006	Report

Packing:

- Bulk
- Drum



Application:

- Gasoline
- Feed for petrochemical
- Solvents
- Resins
- Polishes



Heavy Naphtha

Grade: Heavy

Physical Characteristics: Liquid



Grade	Specific Gravity at 15 °C	Sulfur Total (wt%)	Gum (mg/100ml)
Heavy Naphtha	0.740-0.750	0.07- 0.095	1
	Max 0.7570	0.08 Max	2 Max

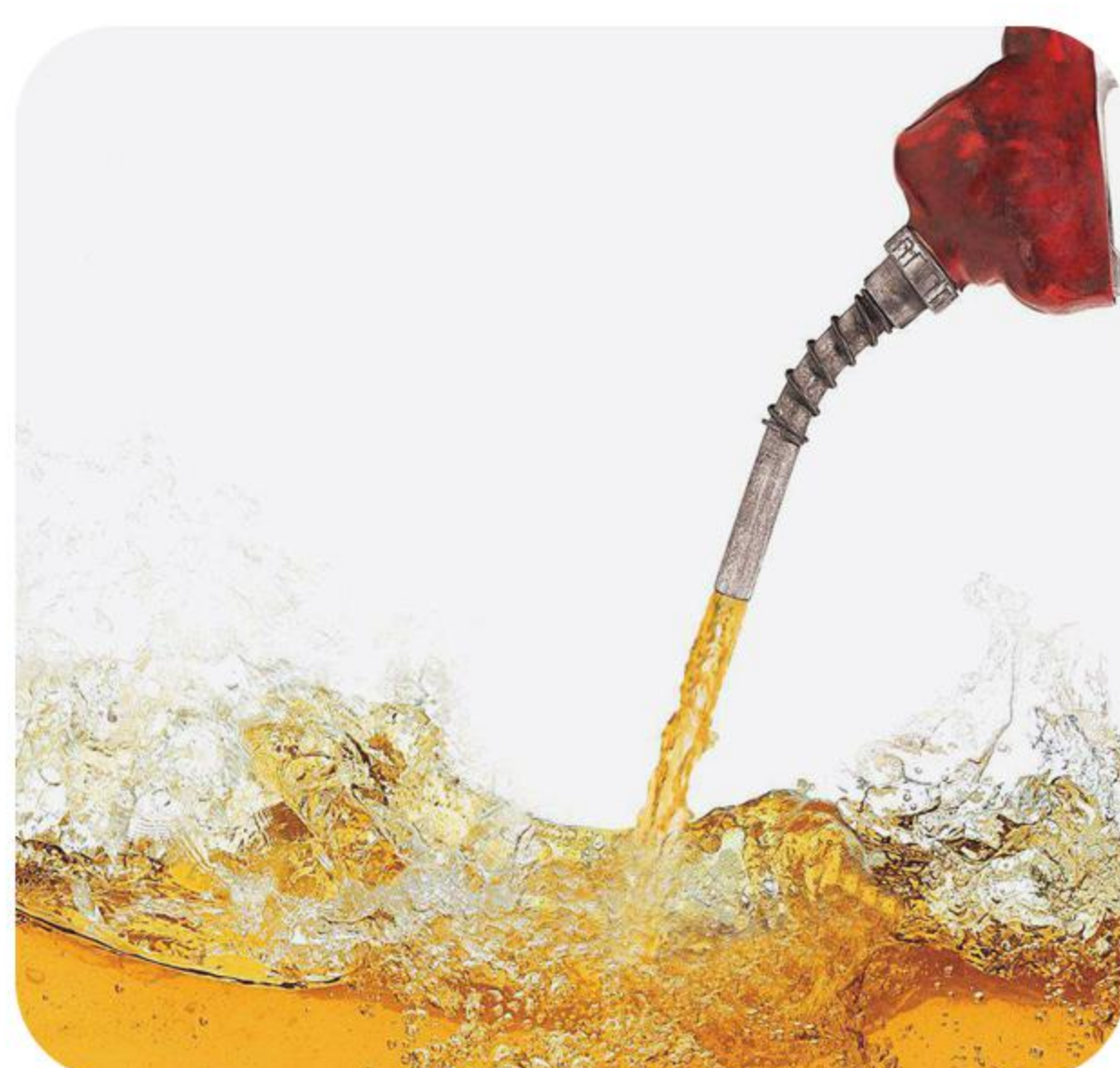
Packing:

- Bulk
- Drum



Application:

- Light Naphtha
- Gas oil
- Gasoline
- Kerosene



Kerosene

Chemical Formula: $C_{12}H_{26} - C_{15}H_{32}$

Physical Characteristics: Liquid- colorless



Grade	Density @ 15 °c	Sulfur Content(m/m %)	Flash Point °c
Kerosene	820 max	0.15 max	43 min/see note(1)

Packing:

- Bulk
- Drum



Application:

- As Fuel



LPG

Chemical Formula: C_3H_8 and C_4H_{10}

Physical Characteristics: Liquid



Grade	Ethane(Vol%)	Propane(Vol%)	Butane(Vol%)	Pentane(Vol%)	Hydrogen sulphur
LPG	0.2 max	15-25	75-85	2.0 max	---
	0.1	32.4	66.7	0.8	Nil
	0.01-0.1	20-50	50-80	0.1-1	Negative

Packing:

- Bulk
- Cylinder



Application:

- Fuel for domestic appliances
- Alternative fuel in cars
- Fuel in various industries
- Gas replaces the Freon gas in aerosol cans



Carbon Black

Grade: Carbon Black (N220,N330,N550,N660,...

Physical Characteristics: Solid- Black Powder



Grade	Density	Iodine Adsorption Number. (mg/g)	Oil Absorption Number (OAN)(ml/100g)
N220	355±20	121±5	114±5
	330-380	117 – 125	110 – 118
N330	380±20	82±5	102±5
	355-405	78-86	98-106
N550	360±20	43±5	121±5
	335-385	39-47	117-125
N660	440±20	36±5	90±5
	415-465	32- 40	86-94

Packing:

- Small Bag(20-25 kg)
- Jumbo bag



Application:

1-Filler for rubber products

- Tires
- Molded and extruded industrial rubber products

2-UVProtection

- Shields from UV rays
- Prevents plastic aging
- Conductive packaging
- Moldings
- Pipes
- Semi-Conductive cable compounds

3-Pigment for printing inks and paints

4-Electrical conductivity





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