

MANUFACTURER, PRODUCER & EXPORTER OF BITUMEN AND OXIDIZED BITUMEN



PETRO TAR KIMIA CO.

(PETRO TAR CO.)

OUR BUSINESS & COMPANY

PETRO TAR KIMIYA COMPANY (PETRO TAR CO.)

We are glad to inform you, we are operates one of the largest Private Refinery in Iran that established in 2005 and now it is one of famous Brand for producing BITUMEN & OXIDIZED BITUMEN. **PETRO TAR CO.** is a Producer & major Provider of Bitumen & Pure Oxidized Bitumen. The company employs is over 40 people involved in a wide range of skills associated with various aspects of manufacturing. By working closely with our customers, Petro Tar is capable of providing and exporting a wide range of Bitumen & Pure Oxidized Products. Quality control in the refinery is accordance with the international standards like ASTM, **PETRO TAR CO.** Engineering Department testing the bitumen and oxidized bitumen while being manufactured and finally on the finished product. The most important parameter in specifications of bitumen and oxidized bitumen products are Softening Point, Penetration Rate, Flash Point, Ductility and Viscosity test. The majority of penetration grade bitumen's are used in road construction.

PETRO TAR COMPANY focuses mainly on foreign trade. We have very good experience in Exporting Oxidized Bitumen to many countries likes India, UAE, Taiwan, Egypt, Ghana, Malaysia, Indonesia, Philippine, Vietnam, Bangladesh, Syrilanca,etc. Our Goal Markets are Southeast Asia, Eastern Asia, Mid East, Oceania and Africa.

PETRO TAR CO is Honor to inform you, All grade of oxidized Bitumen producing 100% pure in our refinery without added any impurities like Gilsonite and any other material.

We Have an Associate Company & Office in Dubai-UAE and also Agent and representative person in Philippine, Vietnam, Thailand,etc.



Location:

PETRO TAR Companies' Refinery is Located at Eshtehard Industrial Park, one of Biggest Industrial Parks in the Middle East near of Tehran City.

MAIN PRODUCTS & CAPACITY:

BITUMEN

- R 20/30
- R 35/50
- R 40/50
- R 40/60
- R 50/70
- R 60/70
- R 70/100
- R 80/100
- R 85/100
- R 100/150
- R 160/220

Capacity: 10,000 Metric Ton per Month

Packing: New Steel Drums 150 Kg, 185 Kg



OXIDIZED BITUMEN (100%Pure)

- R 10/20
- R 85/25
- R 85/40
- R 90/10
- R 90/15
- R 90/40
- R 95/25
- R 110/30
- R 115/15

Capacity: 5000 Metric Ton per Month

Packing: Melt able Bags (with extra cover pp bags to protect the main bag), Carton box, Kraft Bags & New Steel Drums.

History of Bitumen:

It is believed that the word Bitumen is derived from Sanskrit Language and from the word jate meaning pitch. Its Latin equivalent was pixture-men which is termed as Bitumen in French. Bitumen has been used as the moisture insulator and as a joint factor in different fields for more than 5000 years. Its oldest recorded application traces back to 3800 B.C. which is related to the Sumerians.

The word Bitumen has been used several times in the holly books. For example, insulation of Noah's Ark, or the event of Mosses being put in the water in a cradle insulated by Bitumen, also the construction of the Babylon Tower are the cases mentioned in the holly books.

Other cases of the application of Bitumen are preserving materials, dead bodies' mummification, fixing bricks, keeping water, etc.

Man has been informed about asphalt materials for a long time and it has been used in different parts of the world in different fields. Using pure Bitumen in modern industries started after petroleum was discovered and reached its peak in the 2nd half of the 20th century.

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General Information of Bitumen:

Bitumen is the heaviest section of petroleum and one of the most complicated parts of it which can be seen in dark color and in the solid, semi solid or viscose states, whether natural or synthetic. The main components of Bitumen are hydrocarbon compounds having high molecular masses which consist of oil, resin and asphaltine substances. This substance has a very complicated chemical composition, and among its physical characteristics are viscosity, and being damp proof; it is solvable in carbon disulphide and CO₂.

In some countries the term asphalt is used as the equivalent of Bitumen, but in Iran asphalt is commonly known as a mixture of Bitumen and sand which is used in road construction process.

The Introduction of Product Applications:

Bitumen is a very dense and black material which is nearly in solid state in normal conditions. It has a complicated chemical structure, and the researches made so far have not been able to offer a definite theory regarding its chemical structure. The reason is that petroleum from which Bitumen is generated is formed in various geophysical conditions thus it has many different forms. By definition "Bitumen is a substance which can be solved in carbon sulfur. However, the Bitumen used in road construction contains less than 0.1 % of materials which are insolvable in carbon sulfur. Though this material, known as carboide , has a slight impact in the Bitumen impurity , if exposed to high heat its molecules will be broken and this has been realized as a damage to road asphalt.



The Introduction of Product Applications:

Product introduction regarding its character (mediator, consumer, capital goods): The surveyed material as raw material in producing asphalt for road construction and also products related to building insulation has usage , so it can be grouped as mediatory and raw material.

While the main usage of kinds of Bitumen is in the field of road construction and building insulation, the Bitumen produced in this company is not only used in two above mentioned fields but it also has extended to wide applications in different industries. Besides, the produced Bitumen in less volume is used in making battery, shoes, tyre, coating underground tubes(to transfer water, oil, Gas, and so on), asphalt papers, filling joint points of switches , car internal plates , mould making materials(such as electricity sockets), heat insulations, asphalt adobes, preparing lumbers for rail road and etc.

The consumption pattern of the society:

The consumption back ground of the discussed material goes back to five thousand years ago and the place of the product in road construction and building insulation has a high importance.

SPECIFICATION OF BITUMEN:

PROPERTY	GRADE									
	20/30	35/50	40/50	50/70	70/100	80/100	85/100	100/150	160/220	60/70
Specific gravity@ 25/25° C	1.01	1.00-1.05	1.01-1.06	1.00-1.05	1.01	1.00-1.05	1.00-1.05	1.01	1.01	1.01-1.06
Penetration@ 25°C	20-30	35-50	40-50	50-70	70-100	80-100	85-100	100-150	160-220	60-70
Softening point °C	55-63	52-60	52-60	49-56	43-51	45-52	45-52	39-47	35-43	49-56
Ductility@ 25°C	100 Min	100 Min	100 Min	100 Min	100 Min	100 Min	100 Min	100 Min	100 Min	100 Min
Loss on heating (wt)%	0.2 Max	0.2 Max	0.2 Max	0.2 Max	0.5 Max	0.5 Max	0.5 Max	0.5 Max	1.0 Max	0.2 Max
Flash point °C	240 Min	250	250	250	230 Min	250	250	230 Min	220 Min	250
Solubility in °CS2 (wt)%	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

PAKING- BITUMEN & OXIDIZED BITUMEN



PETRO TAR KIMIYA CO (PETRO TAR CO.)

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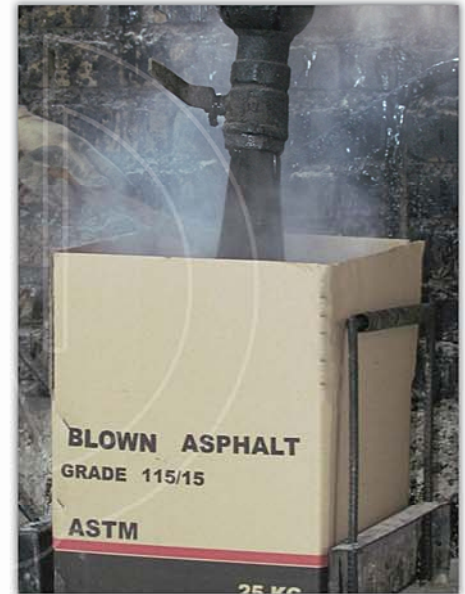
NEW STEEL DRUM
20 Kg, 25 Kg, 150 Kg, 185 Kg
(MARKING: By Order)

Description:

Oxidized bitumen is produced by either continuous or Staggered Blowing Process. Heated Penetration Grade bitumen under controlled environment is blown with air which controls the oil content in the bitumen while it oxidized. The different grades for suited applications produced are designated by two numbers to indicate the mid-points of their softening point and penetration ranges.

Blown bitumen grades or Oxidized Bitumen are produced by Passing air through bitumen at elevated temperature can be used to alter its physical properties for certain commercial applications. The degree of oxidation can range from very small, often referred to as air-rectification, or semi-blowing, which only slightly modifies the bitumen properties, through to "full" blowing, whereby the properties of the bitumen are significantly different to penetration grade bitumen. Nomenclature and grading for the oxidized bitumen products is based on a combination of the temperature at which the bitumen reaches certain "softness" when being heated up as expressed by the ring and ball softening point test, and the penetration value.

The most popular grades of oxidized bitumen are grades 85/25, 95/25, 90/40, and 115/15. PETRO TAR CO capable of producing all grade of Blown Bitumen by different standard packings.



OXIDIZED BITUMEN

Application:

Oxidized Bitumen has a wide variety of industrial applications

- As a bonding bitumen for roofing sheet membranes.
- As a hot applied waterproofing layer.
- Carpet tile manufacture.
- As a raw material for liquid bitumen coatings
- For production of bituminous paints, mastic
- For rust proof pipe coatings
- Used as an anti-slip layer compound in the piling industry
- Used for production of roofing and sound dampening felts
- Used as under carriage sealant in the automobile industry, electric cable joint protection, joint filling compound, sealant compound and many more in our day to day life



Product Benefits:

- High capacity, (5000 MT)
- quality assured manufacture
- Competitive Packing & Price
- Different type of Packing (Polyamide, Kraft Bag, Carton Box, New steel drums)
- Supplied in 20KG, 25kg
- Marking according to customer order
- High speed to delivery
- Weatherproof packaging for flexibility of storage
- Conforms to ASTM standards with regards to softening point and penetration.
- IN Polyamide bags Wrapping can be melted in conventional boilers without the need for removal
- In carton Box - Removing easily on Oxidized Bitumen



PETRO TAR COMPANY PRODUCING AND EXPORTING ALL GRDE OF OXIDIZED BITUMEN OR BLOWN BITUMEN 100% PURE AND WITHOUT ANY IMPURITIES LIKE GILSONITE.

SPECIFICATION OF OXIDIZED BITUMEN:

PROPERTY	GRADE								
	R10/20	R85/25	R85/40	R90/10	R90/15	R90/40	R95/25	R115/15	R110/30
Specific gravity@ 25/25° C	1.00-1.06	1.05 approx	1.05 approx	1.05 approx.	1.05 approx	1.05 approx	1.05 approx	1.00-1.06	1.05 approx
Penetration@ 25°C	10-20	20-30	35-45	5-15	10-20	35-45	20-30	10-20	25-35
Softening point °C	90 Min	80-90	80-90	85-95	85-95	85-95	90-100	110-120	110-120
Ductility@ 25°C	2	1.5 Min	3	1.5 min	1.5 Min	5.5 Min	1.5 Min	2 Min	2 Min
Loss on heating (wt)%	0.5	0.2 Max	0.5 Max	0.2 max	0.2 Max	0.2 Max	0.2 Max	0.2 Max	0.2 Max
Flash point °C	200 Min	250	200 Min	260 min	225	260	260	260	200 Min
Solubility in °CS2 (wt)%	99	99 Min	99 Min	99 min	99 Min	99 Min	99 Min	99 Min	99 Min

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MELTABLE BAG

20 Kg, 25 Kg
(MARKING: By Order)



PAKING- OXIDIZED BITUMEN

CARTON BOX

20 Kg, 25 Kg/ Nonstick
(MARKING: By Order)

PAKING- OXIDIZED BITUMEN



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KRAFT PAPER BAG

20 Kg, 25 Kg/ Nonstick
(MARKING: By Order)



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