

### Bitumen



Iran bitumen has high quality in the world. It is famous to NIOC bitumen and available in different grades, packing between 10000MT to 12000MT monthly.

Available packing is new steel drum, poly bag, Bulk bitumen, Bitutank.

#### **Bitumen Standards:**

Bitumen 30/40, Bitumen 40/50, Bitumen 50/70, Bitumen 60/70, Bitumen 80/100, Bitumen 85/100, Bitumen R85/25, Bitumen R90/15, Bitumen R95/25, Bitumen 100/120, Bitumen 100/200, Bitumen MC250 or cutback.

other grades of bitumen will produce according to order.

#### **Bitumen?**

Bitumen is produced from selected crude oils through a process of fractional distillation. The crude oil is heated to temperatures of between 300 and 350 degrees Celsius and fed into a distillation column allowing the lightest fractions of the crude to separate, through vaporization, from the heavier fractions, which remain liquid.

The higher boiling point fractions are then drawn - off via a heat exchanger and enter a vacuum distillation column. This process produces a "short residue" that is used to manufacture several grades of bitumen. The pressure and temperature conditions within the vacuum process will determine the hardness of the short residue, and as such the grade of bitumen produced. The short residue may be further modified by 'air blowing' in which air is passed through the residue at temperatures of 250 - 300 degrees Celsius.

The above are the typical Penetration or Paving Grades of bitumen. Additional processing provides other grades of bitumen products such as:

**Oxidized bitumens** - produced by more vigorous air blowing; they are more 'rubber like' and less temperature susceptible than the paving grades.

**Hard Grade bitumens** - harder paving grades.

**Cutback bitumens** - blends of penetration bitumens with solvent such as kerosene.

**Emulsions** - stabilized suspensions of bitumen in water.

**Polymer Modified Bitumens** - mixtures of selected bitumens with polymers such as thermoplastics or elastomers.

### Bitumen Packing

Over the years, through investment in the most up-to-date handling systems and purpose-built packing, we have now developed systems, which helps us to help our customers.

A key approach has been to focus on New Steel Drum supply over Polybags-Packed, or Bulk Shipments, since, as the table above shows, this results in saving time, the consistency of quality, costs and our respect for the environment of mother earth.

### Packing Size, Shape & Weights

- Steel Drums :

1- [Height = 980mm] – [Diameter = 500mm] – [Body Thickness = 0.6 mm]  
[Top/Base Thickness = 0.6 mm] – [Net Weight = 182 ± 3 kg] – [Gross Weight = 192 ± 3 kg]  
[Empty Drum Weight = 9.5 ± 1 kg] – [Color= Black] – [Material = New Cold Rolled Steel]

2- [Height = 860mm] – [Diameter = 500mm] – [Body Thickness = 0.6 mm]  
[Top/Base Thickness = 0.6 mm] – [Net Weight = 150 ± 3 kg] – [Gross Weight = 158 ± 3 kg]

[Empty Drum Weight =  $7.5 \pm 1$  kg] – [Color= Black] – [Material = New Cold Rolled Steel]

3- [Height = 980mm] – [Diameter = 500mm] – [Body Thickness = 0.6 mm]  
[Top/Base Thickness = 0.6 mm] – [Net Weight =  $210 \pm 3$  kg] – [Gross Weight =  $220 \pm 3$  kg]  
[Empty Drum Weight =  $10 \pm 1$  kg] – [Color= Black] – [Material = New Cold Rolled Steel]

\* Material: New Cold Rolled Steel \* Temperature in Shade : 30 Degree Celsius

- Poly Bag : ( Not Applied )  
Dimension = 20 cm \* 50 cm \* 60 cm      Weight = 35 +/- 2 kg

\* Polyethylene Material  
\* Temperature in Shade : 40 Degree Celsius

- Bulk : ( Not Applied )  
600 Liters / 22MT(Truck)

\* Truck

For more information, please [contact](#) Hamid Asadi.