



Bitumen 30/40 Specification

Product Description

Bitumen 30/40 is a hard penetration grade petroleum bitumen produced through the controlled refining of crude oil. It is designed for heavy-duty asphalt pavements, highways, airport runways, industrial roads, and areas exposed to high traffic loads and warm climates. Its low penetration value provides excellent resistance to rutting and permanent deformation while ensuring long-term pavement durability.

Technical Specification

Property	Test Method	Unit	Specification
Penetration at 25°C, 100 g, 5 sec	ASTM D5	dmm	30–40
Softening Point (Ring & Ball)	ASTM D36	°C	55–63
Ductility at 25°C	ASTM D113	cm	Min. 100
Flash Point (Cleveland Open Cup)	ASTM D92	°C	Min. 250
Solubility in Trichloroethylene	ASTM D2042	%	Min. 99.0
Loss on Heating (TFOT)	ASTM D1754	wt. %	Max. 0.5
Retained Penetration after TFOT	ASTM D5	%	Min. 55
Ductility after TFOT at 25°C	ASTM D113	cm	Min. 25
Specific Gravity at 25°C	ASTM D70	g/cm ³	1.01–1.06

Typical Characteristics

- Excellent resistance to rutting under heavy traffic.
- High stiffness for superior load-bearing capacity.
- Good adhesion with mineral aggregates.
- Resistant to permanent deformation in hot climates.
- Long service life with reduced maintenance requirements.
- Suitable for high-performance asphalt mixtures.

Applications

Bitumen 30/40 is recommended for:

- Highways
- Expressways
- Airport runways
- Heavy-duty industrial roads
- Container terminals
- Bus lanes
- Port pavements
- Urban roads with heavy traffic
- Asphalt concrete production



- Infrastructure and civil engineering projects

Packaging Options

- New Steel Drum (180 kg $\pm$ 3%)
- Jumbo Bag (300 kg, 500 kg, 1 MT)
- Poly Bag
- Bitutainer
- Bulk Shipment

Storage

Store in clean, dry, and covered facilities away from moisture and direct sunlight. During handling, maintain the recommended temperature to prevent overheating and preserve product quality. Avoid prolonged exposure to temperatures above **180°C**.

Quality Assurance

Bitumen 30/40 is manufactured under strict quality control procedures. Each shipment is supplied with a **Certificate of Analysis (COA)** confirming compliance with the specified technical requirements.

Compliance

Bitumen 30/40 is produced in accordance with internationally recognized paving bitumen standards and is tested using the latest **ASTM** methods to ensure consistent quality, performance, and reliability.