



# ATTOCK REFINERY LTD

## TECHNICAL DATA SHEET

### BITUMEN 60/70

#### Product Description:

Bitumen is a non-crystalline viscous material, black or dark brown, possessing adhesive and waterproofing qualities. It consists essentially of hydrocarbons and would typically comprise at least 80% carbon and 15% hydrogen, the remainder being oxygen, nitrogen and traces of various metals. ARL supplied Bitumen of the highest quality and fully compliant with ASTM and AASHTO Standards. Penetration Grade Bitumen of Attock Refinery Ltd is petroleum grade bitumen, manufactured from fractional distillation of crude oil. Penetration Grade bitumen are specified by the penetration. Designation is by penetration range only. The penetration grade bitumen has a thermoplastic property that causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

#### Application and Benefits:

Bitumen Penetration Grade 60/70 is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses.

#### Health, Safety and Environment:

Health, safety and environmental information are provided for this product in the Safety Data Sheet. This gives details of the potential hazards, precautions and First Aid measures. Attock Refinery Ltd will not accept liability if the product is used other than in the manner or with the precautions or for the purposes specified.

- **Typical information from MSDS**

keep away from open fire, sparks or other ignition sources; wear protective clothing, gloves and goggles.

**Skin** - avoid repeated or prolonged contact, if occurs remove with hand cleaner that removes oil or grease, then clean with soap and water

#### Storage:

All packages should be stored under cover in steel drums. Keep containers closed and clearly labeled. The storage area should comply with NFPA 30.



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#### Specifications & Typical Value:

#### Bitumen 60/70

TEST DESCRIPTION	UNIT	TEST METHOD	SPECIFICATIONS	MAX / MIN	ARL TYPICAL
Ductility 25°C	cm	D113	100	Min.	100+
Flash point	°C	D92	232	Min.	260
Penetration @ 25°C	1/10 mm	D5	60 - 70	-	65
Loss on Heating @ 163°C	wt%	D6	0.20	Max	0.10
Penetration @ 25°C (After LOH)	% age	D5	75	Min.	85
Solubility in Trichloroethylene	wt%	D2042	99	Min.	99.7
Ductility 25°C (After LOH)	cm	D113	75	Min.	100

For more Information Please Contact **Attock Refinery Ltd.** Phone: 92-51-5487041 / Ext. 2596 / 2469