



# ATTOCK REFINERY LTD

## TECHNICAL DATA SHEET

### BITUMEN 80/100

#### Product Description:

Bitumen 80/100 is a non-crystalline viscous material, black or dark brown, possessing adhesive and waterproofing qualities. Additional processing of this type of Bitumen yields various grades of Bitumen products. Bitumen penetration grade 80/100 is a bit softer than bitumen 60/70 and selected carefully from distillate of crude oil ARL supplied bitumen of the highest quality and fully compliant with ASTM and AASHTO Standards.

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 80/100 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. Bitumen Penetration Grade 80/100 is commonly used to manufacture Asphalt Mixes, Cutback Bitumen, Bitumen Emulsions and Modified Bitumen.

#### 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, Poly Bags. Keep containers closed and clearly labeled. The storage area should comply with NFPA 30.



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#### Specifications & Typical Value:

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TEST DESCRIPTION	UNIT	TEST METHOD	SPECIFICATIONS	MAX / MIN	ARL TYPICAL
Ductility 25°C	cm	D113	100	Min.	100+
Flash point	°C	D92	232	Min.	250
Penetration @ 25°C	1/10 mm	D5	80 - 100	-	88
Loss on Heating @ 163°C	wt%	D6	0.20	Max	0.14
Penetration @ 25°C (After LOH)	% age	D5	75	Min.	92
Solubility in Trichloroethylene	wt%	D2042	99	Min.	99.8
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