

# BITUMEN 100/120

(Penetration Grade)

### TYPICAL PROPERTIES

#### PROPERTY UNIT 100/120 TEST METHODS

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Specific Gravity @25°C	- 1.01-1.06	ASTM D-70
Penetration @25°C, 100gm, 5sec 0.1MM	100/120	ASTM D-5
Softening Point, Ring & Ball °C	42-49	ASTM D-36
Ductility @25°C, after TFOT, Min CM	100	ASTM D-113
Loss on Heating, Max %Wt	0.5	ASTM D-6
Drop in Penetration after Heating, Max %	20	ASTM D-6 & D-5
Flash Point Cleveland open cup, Min °C	250	ASTM D-92
Solubility in CS <sub>2</sub> , Min %Wt	99.5	ASTM D-4
Organic Matter Insoluble in CS <sub>2</sub> , Max %Wt	0.5	ASTM D-4
Sport Test - Negative	*A.A.S.H.O.T.102	

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**Penetration Grade Bitumen** is commonly used in road construction, surfacing and some industrial applications. Additional processing of this type of Bitumen yields various grades of Bitumen products. The Penetration Test determines the hardness of Bitumen by measuring the depth ( in tenths of a mm) to which a standard, and loaded needle will vertically penetrate in 5 seconds, a sample of Bitumen maintained at a temperature of 25°C. Hence the softer the bitumen, the greater will be its number of penetration units. Bitumen Grade 100/120 is commonly used to manufacture Asphalt Mixes, Cut-back Bitumen, Bitumen Emulsions and Modified Bitumen. Penetration Bitumen Grade 100/120 is derived from specially selected crude oils through a controlled refining process.

**Quality:** All Bitumen supplied is of the highest quality and fully compliant with ASTM and AASHTO, equivalent EN and BS International Standards and Test Methods. SGS Quality Testing and Analysis certification of the Bitumen products inspected when requested, will be compliant with Product Specifications and International Standards. Quality assured manufacturing. Equivalent to BS EN 12591 and BS EN 13924.

**Packaging:** New steel drums, reconditioned steel drums or eco-friendly poly bags. Weatherproof packaging for flexible storage.

**Storage and Handling Recommendations:** Store in unopened containers. Storage temperature limits 1°C - 50°C. For normal operations, such as blending and transferring liquid bitumen, temperatures of 10°C - 40°C above the minimum pumping temperature are recommended.

#### Recommended Storage & Handling Temperatures:

Minimum Pumping Temperature : 105°C.  
Storage Temperature When Coating or Mixing : 150°C  
Protracted Storage Temperature : 70°C  
Maximum Handling & Storage Temperature : 200°C

For further information, please contact:

**Dream Home Innovation Fze**  
Sharjah, United Arab Emirates.  
Email : [info@etihadsouq.ae](mailto:info@etihadsouq.ae)  
Phone : +971 (56) 4305251