



# MIB BITUMEN 60/70

## Penetration Grade Bitumen 60/70

### DESCRIPTION

**Bitumen** is a non-crystalline viscous material, black or dark brown, which is substantially Soluble in carbon disulphide (CS<sub>2</sub>), possessing adhesive and waterproofing qualities.

**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 as well as used in some industrial applications. This grade of Bitumen Is mainly used in the manufacture of hot mix asphalt for bases and wearing courses. Penetration Grade Bitumen is petroleum grade bitumen, manufactured from fractional / vacuum distillation Of crude oil. The Bitumen is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumen's are specified by the penetration and softening point test. Designation is by Penetration range only. The penetration grade bitumen's have a thermoplastic property which 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.

### FEATURES

**Bitumen 60/70** is an ideal product for hot mix asphalt for base & wearing courses having following feature:

- Hot applied
- High adhesive property
- Having thermoplastic property
- Good durability
- Better rheological property
- Environment friendly & Economical

### USES

- Paving grade bitumen for road construction
- Used for Concrete protection
- Used as raw material for Bitumen Emulsions, Bitumen Cutbacks, Bitumen Primers & Bitumen paints

### HEALTH & SAFETY

- Contains petroleum distillate; flammable; keep away from open fire, sparks or other ignition sources; wear protective clothing, gloves & goggles.
- Skin-avoid repeated or prolonged contact, if occurs remove with hand cleaner that remove soil / grease, then clean with soap & water.
- Eyes contact could cause irritation, if contact occurs flush immediately with clean water.
- Inhalation can cause dizziness, move to fresh air area immediately if dizziness & breathing difficulty persists administer oxygen & seek medical attention immediately.



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### SUPPLY

Penetration Grade Bitumen 60/70 is supplied mainly BULK tankers & Metallic drums.

### TECHNICAL DATA

PROPERTIES	Test Specifications		Test Standards
	Min.	Max.	
Penetration @ 25°C (0.1mm), 100g, 5 sec	60	70	ASTM D-5
Specific Gravity, 25/25°C	1.01	1.06	ASTM D-70
Flash Point, °C, Cleveland open cup	250	--	ASTM D-92
Ductility @ 25°C, Cm, 5cm/min.	100	--	ASTM D-113
Kinematic Viscosity @ 135°C, cSt	240	--	ASTM D-2170
Softening Point, °C, Ball & Ring	48	56	ASTM D-36
Solubility in Trichloroethylene, %	99	--	ASTM D-2042
Ash Content, %	--	1.0	ASTM D-482
Loss on Heating @ 163°C, 5 hrs., mass % *Thin film oven test	--	0.8	ASTM D-1754
Penetration of residue ( TFOT), % of Original,	54	--	ASTM D-5
Ductility of Residue ( TFOT) @25°C, 5cm/min	50	--	ASTM D-113
Spot Test	Neg.	Neg.	AASHTO T-102

### APPLICATION TEMPERATURE

The following temperature are recommended for Penetration Grade Bitumen 60/70:

Storing Temperature	120 ~ 150°C
Mixing Temperature	135 ~ 155°C
Compaction Temperature	125 ~ 145°C

#### Muscat International Development LLC

P.O.Box: 731 ,P.C: 116

Mina Al Fahal,Al Qurum

Muscat , Sultante of Oman.

Tel: 22009630, Fax: 22009631

E-mail: [info@miboman.com](mailto:info@miboman.com)

Website: [www.miboman.com](http://www.miboman.com)



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