



## TECHNICAL DATA SHEET

### 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 water-proofing 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. Penetration Grade Bitumen is commonly used in road surfacing, and some industrial applications.

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 deg C ( 77deg F)

#### SPECIFICATION:

Property		Typical Data	ASTM Method
Penetration	1 / 10 mm	60-70	D5
Softening Point R&B	oC	48-56	D36
Solubility in 1,1,1 trichloroethylene, min	%	99.5	D2042
Ductility @ 25 oC, min	CM	100	D113
Flash Point (Cleveland Open Cup), min	oC	276	D92
Loss on heating	%	0.2	D6
Drop in penetration after heating	%	20	D5
Relative Density @ 25/25 oC		1.00-1.06	D70

#### Application Temperature :

The following temperature are recommended for Bitumen 60/70

Storing temperature, oC	120-150
Mixing temperature, oC	135-155
Compacting temperature, oC	125-145

#### Packing :

Steel drums, Poly Bags

#### Health & Safety:

- Contains petroleum distillate; flammable: 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 remove soil or grease, then clean with soap and water.
- Eyes contact could cause irritation, if contact occurs flush immediately with clean water.
- Inhalation can cause dizziness, move immediately in fresh air if dizzy and if breathing difficulty persists administer oxygen.