

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 (CS₂), 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

PARAMETER	VALUE	TEST METHOD
Specific Gravity @ 25/25 deg C	1.01/1.06	D-70
Penetration @ 25 deg C	80/100	D-5
Softening Point deg C	45/52	D-36
Ductility @25 deg C	100 min	D-113
Loss on Heating (wt)%	0.5 max	D-6
Drop in Penetration %	20 max	D-6 & D-5
Flash Point deg C	225 min	D-92
Solubility in CS ₂ (wt)%	99.5 min	D-4
Spot test	Negative	*A.A.S.H.O.T.102

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 removes oil 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.