

BITUMEN 60/70

PRODUCT DATA SHEET

Penetration Grade Bitumen is commonly used in road construction, surfacing and some industrial applications and is produced from fractional / vacuum distillation of crude oil. Additional processing of this type of Bitumen yields various grades of Bitumen products.

The penetration grade bitumen has 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.

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, through 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.

PROPERTY	UNIT	LIMITS	TEST METHODS
Specific Gravity @25°C	-	1.00 - 1.06	ASTM D-70
Penetration @25°C, 100gm, 5sec	0.1MM	60 – 70	ASTM D-5
Softening Point, Ring & Ball	°C	49 – 56	ASTM D-36
Ductility @25°C, after TFOT, Min	CM	100.0	ASTM D-113
Loss on Heating, Max	% Wt.	0.2	ASTM D-6
Drop in Penetration after Heating, Max	%	20.0	ASTM D-6 & D-5
Flash Point Cleveland open cup, Min	°C	232.0	ASTM D-92
Solubility in Trichloroethylene Min	% Wt.	99.50	ASTM D-2042
Spot Test	-	Negative	*A.A.S.H.O.T.102

QUALITY:

Our Bitumen supplied is of the highest quality and totally compliant with ASTM and AASHTO, equivalent EN and BS International Standards and Test Methods. SGS and similar independent Quality Testing and Analysis lab certification of our Bitumen products inspected when requested, will be compliant with Product Specifications and International Standards. Assured manufacturing. Quality is Equivalent to BS EN 12591 and BS EN 13924.

Bitumen Grade 60/70 is commonly used to manufacture Asphalt Mixes, Cut-back Bitumen, Bitumen Emulsions and Modified Bitumen.

APPLICATION TEMPERATURES RECOMMENDED:

- **Storing:** 120°C - 150°C
- **Mixing:** 130°C - 150°C
- **Compacting:** 120°C - 140°C

PACKAGING:

New steel drums, reconditioned steel drums or eco-friendly poly bags. Weatherproof packaging is available subject to our standard Terms and Conditions of Sale.

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.
