

BITUMEN 50/70

PRODUCT DATA SHEET

Bitumen Penetration Grade 50/70 or as per ASTM Bitumen Penetration Grade 50/70 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. This grade of Bitumen is mainly used in the spraying and chip applications. Penetration Grade Bitumen supplied is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The Bitumen supplied is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumen is specified by the penetration and softening point test. Designation is by penetration range only. 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.

CHARACTERISTICS AND SPECIFICATIONS

The Bitumen Grade 50/70 supplied is produced in compliance to and is in conformity to AASHTO M20-70 and ASTM D946/ D946M and is guaranteed to meets the following specification requirements.

CHARACTERISTICS	TEST METHOD	UNIT	MIN.	MAX.
Specific Gravity at 25 °C	ASTM D70	°C	1.01	1.06
Penetration at 25 °C, 100g, 5s	ASTM D5	mm	50	70
Softening Point	ASTM D36	°C	49	56
Ductility at 25 °C	ASTM D113	Cm	100	
Loss on heating	ASTM D6	%		0.2
Drop in penetration after heating	ASTM D5	%		20
Flash point	ASTM D92	°C	230	
Solubility in Trichloroethylene	ASTM D2042	%	99	
Spot Test	AASHOT 102	%	Negative	