

STANDARD BITUMEN

PENETRATION GRADE: PEN80/100

PROPERTY / UNIT	UNIT	SPECIFICATION	TEST METHOD
Penetration at 25°C (100g/5s)	0.1mm	80-100	ASTM D5
Ductility at 25°C	cm/s	100	ASTM D113
Softening Point	°C	45-52	ASTM D36
Loss on Heating PCT WT	%	0.5	ASTM D6
Drop in Penetration after Heating	%	20	ASTM D5
Flash Point	°C	250	ASTM D92
Solubility in CS2 PCT WT	%	99.5	ASTM D4
Rel. Density/Spec. Gravity at 25°C	g/cm ²	1.00-1.05	ASTM D70
Organic Matter Insoluble in CS2 PCT WT	%	0.2	ASTM D4
Spot Test	-	NEGATIVE	AASHTO 102
<p>Penetration Grade Bitumen is commonly used in road construction, surfacing and some industrial applications. Additional processing of this type of Bitumen yields various grades of Bitumen products. The Penetration Test determines the hardness (viscosity) 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°C. Hence the softer the bitumen, the greater will be its number of penetration units. Penetration Bitumen Grade 80/100 is commonly used to manufacture Asphalt Mixes, Cutback Bitumen, Bitumen Emulsions and Modified Bitumen. Penetration Bitumen Grade 80/100 is derived from specially selected crude oils through a controlled refining process.</p> <p>Quality: All Bitumen supplied is of the highest quality and fully compliant with ASTM and AASHTO. Geochem Quality Testing and Analysis certification of the Bitumen products before shipping. Quality Assessment is carried out at various stages of refining including drumming stage.</p> <p>Packaging: New steel drums, reconditioned steel drums or eco-friendly poly bags. Weatherproof packaging for flexible storage.</p> <p>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.</p>			
Recommended Application Temperatures		Storing	120°C - 150°C
		Mixing	130°C - 150°C
		Compacting	120°C - 140°C