



## STANDARD SPECIFICATION OF PENETRATION BITUMEN GRADE 85/100

This type of bitumen is created during the process of oxidation in a vacuum bottom (The bitumen production feedstock that is derived from a distillation tower residue in vacuum oil refineries) at bitumen production units. The penetration point (Kind of test to indicate the hardness of bitumen becomes **85/100**).

Property/Unit	Specification	Method
Density, 25 °C, (Kg./m <sup>3</sup> )	1.000/1.050	ASTM D71 OR ASTM D3289
Penetration, 25 °C, 100/gr,5s,(1/10mm)	80–100/85–100	ASTM D5
Softening point (°C)	42–52/45–52	ASTM D36
Loss on heating (163 °C–5H) (wt %)	0.5 max	ASTM D6
Drop-in penetration after heating (%)	20 max	ASTM D6805
Loss of weight (%)	<0.8	ASTM D1754
Flash point (°C)	>230 °C	ASTM D92
Solubility in T.C.E (wt %)	>99	ASTM D2042
Ductility, 25 °C, 5cm/min (cm)	>100	ASTM D113
Temperature (°C)		max 90–110 above the soft
Bitumen content (wt %)	>99.5	ASTM D4

### USAGE

Bitumen penetration grade **85/100** is standard penetration grade bitumen. It is used as 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 manufacture of hot mix asphalt for bases and wearing courses.