

Technical Data Sheet

Bitumen 85/100

The Bitumen mode is dependent on temperature. The temperature-vs-stiffness relationship of bitumen is dependent on the type of crude oil and its refining method. **Bitumen penetration grade 85/100** is semi hard penetration grade bitumen used as a paving grade bitumen which is suitable for road construction and repair. It is also used for the production of asphalt pavements with the below technical specification. This grade of bitumen is mainly used in the manufacturing of hot mix asphalt for bases and wearing courses. Bitumen 85/100 is one of the most used bitumen grades and it's a basic material for all other bituminous products.

Penetration determines the hardness of bitumen by measuring the depth to which a standard loaded the needle will vertically penetrate in 5 seconds, in a sample of bitumen maintained at a temperature of 25 degrees Celsius.

Applications:

Bitumen 85/100 is suitable for road construction and for the asphalt pavements with superior properties. This type of bitumen used in the manufacture of hot mix asphalt for bases and wearing courses and the main usage of this product is used in the spaying and chip application. The bitumen is provided during the presses of oxidation of vacuum bottom in bitumen production units. Due to its relatively low air blowing and penetration, It is used in areas with cold weather for asphaltting and insulation. It is not cracked in low temperatures.

Properties	Unit	Specification	Test Method
Penetration @25°C	0.1 mm	85/100	ASTM D5
Specific gravity @ 25°C	g/cm ³	1.01/1.05	ASTM D70
Softening point °C	°C	42/52	ASTM D36
Ductility @25°C	Cm	100 min	ASTM D113
Loss on heating(wt) %	Wt%	0.5 max	ASTM D6
Drop in penetration after heating	%	20 max	ASTM D5-D6
Flash point	°C	232 min	ASTM D92
Solubility in CS2	Wt%	99 min	ASTM D4
Organic matter insoluble in CS2	Wt%	0.2 max	ASTM D4
Viscosity @ 60°C	p	1000±200	ASTM D-2171
Spot test	--	Negative	A.a.s.h.o.t 102