

Bitumen 85/100

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Bitumen 85/100 is a type of semi-hard bitumen that is used as a raw material in the production of asphalt and road surface coatings.

This bitumen is widely used in road construction and repair due to its special properties.

Penetration

The penetration of bitumen 85/100 is between 8.5 and 10 mm.

This property indicates the hardness and flexibility of the bitumen at different temperatures.

Softening point:

The softening point of this bitumen is between 45 and 52 degrees Celsius.

This property allows the bitumen to become softer at high temperatures and harder at low temperatures.

Production Method

85/100 bitumen is produced by refining crude oil and passing hot air through a vacuum bottom.

This process involves breaking down the hydrocarbons and extracting the remaining crude oil.

Physical Properties

85/100 bitumen is thermoplastic, meaning it softens when heated and hardens when cooled.

This bitumen has a very strong viscosity, making it suitable for use in a variety of conditions.

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Ambient Condition	Pressure(mm Hg) 760		Humidity(%)	
Test	Standard Range		Test Method	
	Min	Max	INSO	ASTM
Specific Gravity 25 °C/25°C	1.01	1.05	3872	D70
Penetration 25 °C-100gr -5s 0.1 mm	85	100	2950	D5
Softening Point °C(R&B)	42	.	3868	D36
Flash Point °C (Cleveland Open Cup)	230	.	198	D92
Ductility 25°C 5 cm/min , cm	100	.	3866	D113
Solubility In Trichloroethylone (wt)%	99.0	.	2953	D2042
Spot Test	Negative		2949	AASHTO T102
Kinematic Viscosity 135 °C, mm ² /S	.	.	12855	D2170
Dynamic Viscosity 60 °C, Pa. s	.	.	12851	D2171
Penetration Index	-1.5	+0.7	.	EN 12607-1
Thin Film Oven Test ,163°C, 3.2mm , for 5 hours (TFOT)(ASTM D1754)				
Change In Mass (wt)%	.	1.0	2957	D1754
Penetration after Heating 25 °C - 100gr -5s ,0.1mm	.	.	2950	D5
Rateined Penetration %	47	.	2950	D5
Ductility After Heating 25°C. 5cm /min.cm	75	.	3866	D113
Dynamic Viscosity after heating 60 °C, Pa. s	.	.	12851	D2171
Loss On Heating (ASTM 06)				
Loss On Heating (wt)%	.	0.5	.	D6
Penetration after heating 25°C - 100gr -5s, 0.1 mm	.	.	.	D5
Drop In Penetration %	.	20	.	D6