

Bitumen 120/150

Bitumen 120/150

Bitumen 120/150 is a type of semi-hard bitumen that is mainly used in the construction industry, especially in the production of asphalt and road surface coatings. This type of bitumen is very popular in construction and road construction projects due to its special characteristics.

Applications

- **Asphalt:** Bitumen 120/150 is mainly used in the production of asphalt for roads and highways.
- **Insulation:** This bitumen is also used as insulation in various buildings and structures.
- **Production of modified bitumen:** Bitumen 120/150 is also used in the production of modified bitumen and emulsion bitumen.

Physical Properties

Penetration: The penetration of bitumen 120/150 is between 12 and 15 mm. This number indicates the stiffness and flexibility of the bitumen at different temperatures.

Softening Point: The softening point of this bitumen is usually between 38 and 48 degrees Celsius. This property allows the bitumen to become softer at high temperatures and harder at low temperatures

Bitumen 120/150

Ambient Condition	Pressure(mm Hg) 760		Humidity(%)	
Test	Standard Range		Test Method	
	Min	Max	INSO	ASTM
Specific Gravity 2'5'C/2'5'C	1.01	1.05	3872	D70
Penetration 2'5'C-100gr 5s.0.1mm	120	150	2950	D5
Softening Point °C (R&O)	38	.	3868	D36
Flash Point °C (Cleveland Open Cup)	220	.	198	D92
Ductility 25°C 5 cm/min, cm	100	.	3866	D113
Solubility In Trichloroethylene(WT)%	99.0	.	2953	D2042
Spot Test	Negative		2949	AASHTO T102
Kinematic Viscosity 13S°C, mm'/s	.	.	1285S	D2170
Dynamic Viscosity 60"C,Pa.s	.	.	128Sl	D2171
Penetration Index	-1.5	0.7	.	EN 12607-1
Thin Film Oven Test ,163 °C ,3.2 mm ,for 5 hours (TFOT)(ASTM D 1754)				
Change In Mass (WT)%	.	1.3	2957	D1751
Penetration after heating 25°C - 100gr - 5s, 0.1mm	.	.	2950	D5
Retained Penetration %	42	.	2950	D5
Ductility After heating 25°C - 5cm / min ,cm	100	.	3866	D113
Dynamic Viscosity After Heating 60°C, Pa. s	.	.	12851	D2171
Loss On Heating (ASTM D6)				
Loss On Heating (WT)o/o	.	.	.	D6
Penetration after heating 25°C - 100gr - 5s, 0.1mm	.	.	.	D5
Drop In Penetration %	.	.	.	D6