

Bitumen 160/220

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Bitumen 160/220 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 of great interest in construction and road construction projects due to its special characteristics.

Physical Properties

- The penetration degree of bitumen 160/220 is usually between 16 and 22 mm. This number indicates the hardness and flexibility of the bitumen at different temperatures.
- The softening point of this bitumen is usually between 45 and 55 degrees Celsius. This property allows the bitumen to become softer at high temperatures and harder at low temperatures.
- Asphalt Construction: Bitumen 160/220 is mainly used in the production of asphalt for roads, highways and airport runways.
- Insulation: This bitumen is also used as insulation in various buildings and structures.
- Production of Modified Bitumen: Bitumen 160/220 is also used in the production of modified bitumen and emulsion bitumen.

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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	1.06	3872	D70
Penetration 25°C·100gr 5s,0.1mm	60	70	2950	D5
Softening Point °C (R&B)	46	.	3868	D36
Flash Point °C (Cleveland Open Cup)	230	.	198	D92
Ductility 25°C 5cm/min, cm	100	.	3866	D113
Solubility In Trichloroethylene (WT)%	99.0	.	2953	D2042
Spot Test	Negative		2949	AASHTOT 102
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)%	.	1.8	2957	D1754
Penetration After Heating 25°C 100gr -5s , 0.1 mm	.	.	2950	D5
Retained Penetration %	52	.	2950	D5
Ductility After Heating 25 °C ,5cm/min ,cm	50	.	3866	D113
Dynamic Viscosity After Heating 60 °C. Pa .s	.	.	12851	D2171
Loss On Heating (ASTM D6)				
Loss On Heating (WT)%	.	0.2	.	D6
Penetration After Heating 25 °C 100gr , 5s 0.1mm	.	.	.	D5
Drop In Penetration %	.	20	.	D6