

# Bitumen 60/70

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Bitumen 60/70 is a type of penetrating bitumen used as a bitumen product in the construction and road construction industry. This type of bitumen has a permeability of between 60 and 70 tenths of a millimeter, which indicates its viscosity and rheological properties. Bitumen 60/70 is produced through oxidation and vacuum bottom processes :

- **Oxidation:** Oxidation of bitumen with air and heat at high temperatures.
- **Vacuum Batum:** Purification of bitumen using low pressure and high temperature.

## Applications

- **Hot asphalt:**

Bitumen 60/70 acts as one of the main elements of hot asphalt and is responsible for the adhesion and connection of the mixture.

- **Climatic regions:**

Due to its characteristics, this type of bitumen is more suitable for regions with a temperate climate and adapts well to climatic conditions.

- **Road coating:**

Bitumen 60/70 is widely used in the production of asphalt and road surface coating and is considered a suitable option in road construction.

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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	AASHTO T102
Kinematic Viscosity 135 °C, mm <sup>2</sup> /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)%	.	0.8	2957	D1754
Penetration After Heating 25 °C - 100gr- 5s. 0.1mm	.	-	2950	D5
Rateined 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 , 0.1 mm	.	-	.	D5
Drop In Penetration %	.	20	.	D6