

# BITUMEN 100-120

## Penetration Grade Asphalt Cement

### General Description

It is a kind of bitumen which is produced during the process of oxidation of vacuum bottom (the bitumen production feedstock that derives from distillation tower residue in vacuum oil refineries) at bitumen production units in a manner that its penetration point (kind of test to indicate the hardness of bitumen) becomes between 100-120. Bitumen 100-120 has high flash point and high adhesion properties to aggregates, compatible with all types of aggregates.

### Typical Applications

- Construction and maintenance of flexible pavements
- Road surfacing and some industrial applications
- Road and airport constructions
- Road making at cold regions

## Application Temperature

APPLICATION	RECOMMENDED TEMPERATURE	UNIT
Storage temperature	120-150	°C
Mixing temperature	130-150	°C
Compacting temperature	120-140	°C

## Product Specification

ANALYSIS	VALUE*	UNIT	TEST METHOD
Density, 25 °C	1010-1060	kg/m <sup>3</sup>	ASTM D70 or D3289
Penetration, 25 °C	30-40	mm/10	ASTM D5
Softening point	55-63	°C	ASTM D36
Ductility, 25 °C	100 (Min)	cm	ASTM D113
Loss on heating	0.2 (Max)	wt %	ASTM D6
Drop in penetration after heating	20 (Max)	%	ASTM D5 & D6
Flash point (Cleveland open cup)	250 (Min)	°C	ASTM D92
Solubility in CS <sub>2</sub>	99.5 (Min)	wt %	ASTM D4
Spot test	Negative	---	AASHOT102**

\* Typical values; not to be considered as product specification

\*\* American association of state highway officials