

BITUMEN 200-300

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 200-300. Bitumen 200-300 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

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	990-1040	kg/m ³	ASTM D70 or D3289
Penetration, 25 °C	200-300	mm/10	ASTM D5
Softening Point	34-41	°C	ASTM D36
Ductility, 25 °C	100 (Min)	cm	ASTM D113
Loss on heating	1 (Max)	wt %	ASTM D6
Drop in penetration after heating	37 (Min)	%	ASTM D5
Flash point (Cleveland open cup)	177 (Min)	°C	ASTM D92
Solubility in trichloroethylene	99.0 (Min)	wt %	ASTM D2042
Spot test	Negative	---	AASHTO102**
Viscosity, 60°C	200±50	P	ASTM D 2171
Viscosity, 135°C	80 (Min)	cSt	ASTM D 2170
Performance after RTFOT method test to ASTM D-1754***			
Retained penetration after TFOT	40 (Min)	%	ASTM D5
Ductility, 25 °C, 5 cm/min, cm after TFOT	100	cm	ASTM D113
Viscosity, 60 °C	1250 (Max)	P	ASTM D 2171

* Typical values; not to be considered as product specification

** American association of state highway officials

*** Residue from thin film oven test