

BITUMEN 60-70 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 60-70. Bitumen 60-70 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 temperate regions

Application Temperature

APPLICATION	RECOMMENDED TEMPERATURE	UNIT
Storage temperature	120-150	°C
Mixing temperature	135-155	°C
Compacting temperature	125-145	°C

Product Specification

ANALYSIS	VALUE*	UNIT	TEST METHOD
Density, 25 °C	1010-1060	kg/m³	ASTM D70 or D3289
Penetration, 25 °C	60-70	mm/10	ASTM D5
Softening point	49-56	°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
Flash point (Cleveland open cup)	232 (Min)	°C	ASTM D92
Solubility in trichloroethylene	99.0 (Min)	wt %	ASTM D2042
Spot test	Negative		AASHOT102**
Viscosity, 60°C	2000±400	Р	ASTM D 2171
Viscosity, 135°C	300 (Min)	cSt	ASTM D 2170

Performance after RTFOT method test to ASTM D-1754***					
Retained penetration after TFOT	54 (Min)	%	ASTM D5		
Ductility, 25 °C, 5 cm/min, cm after TFOT	50	cm	ASTM D113		
Viscosity, 60 °C	10000 (Max)	Р	ASTM D 2171		

^{*} Typical values; not to be considered as product specification

^{***} Residue from thin film oven test

Rayomand Petroleum and Energy Commercial Co.	Tel: +98 21 2265 9165	www.rayomand.com
2 nd Floor, No. 48, 37 th Avenue - Saadat Abad Blvd. Tehran - Iran	Fax: +98 21 2265 9110	email: info@rayomand.com

^{**} American association of state highway officials