



Bitumen Variety

BITUMEN 100/120 - PENETRATION PAVING BITUMEN GRADE

GENERAL DESCRIPTION

This type of Bitumen is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses. Penetration Grade Bitumen supplied by Earthcore Investments is petroleum grade bitumen, manufactured from fractional/vacuum distillation of crude oil. The Bitumen supplied by Earthcore Investments is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumen are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumen have a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

CHARACTERISTICS

Earthcore Investments guarantees that the Bitumen Grade 100/120 it supplies under its offers is produced in compliance to and is in conformity to European Standard DIN EN 12591:99 and meets the following specification requirements.

SPECIFICATION – EUROPEAN NORM EN 12591

Bitumen 100/120					
#	Characteristic	Test Method	Unit	Minimum	Maximum
1	Specific gravity @ 25°C	ASTM D70	°C	1.01	1.04
2	Penetration @ 25°C	ASTM D5	Mm	100	120
3	Softening Point	ASTM D36	°C	42	49
4	Ductility at 25°C	ASTM D113	Cm	100	
5	Loss on Heating	ASTM D6	%	0	0.2
6	Drop in Penetration after Heating %	ASTM D5/D6	%	0	20.0
7	Flash Point	ASTM D92	°C	250	
8	Solubility in SC2	ASTM D2042	%	99.5	
9	Organic Matter Insoluble in CS2	ASTM D4	%	0	0.2
10	Spot Test	ASTM AASHOT 102		Negative	