

Bitumen 85/100

Technical Data Sheet

November 2014



DESCRIPTION:

Bitumen Penetration Grade 85/100 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 PHOENIX INTERNATIONAL A/S is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The Bitumen supplied by PHOENIX INTERNATIONAL A/S is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumens are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumens 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 AND SPECIFICATIONS:

PHOENIX INTERNATIONAL A/S guarantees that the Bitumen Grade 85/100 is produced in compliance to and is in conformity to AASHTO M20-70 and ASTM D946/D946M and meets the following specification requirements.

TECHNICAL DATA				
Bitumen Penetration Characteristics	Test Method	Unit	Min.	Max.
Specific Gravity at 25 °C	ASTM D70	°C	1.01	1.05
Penetration at 25 °C, 100g, 5s	ASTM D5	mm	85	100
Softening Point	ASTM D36	°C	45	52
Ductility at 25 °C	ASTM D113	Cm	100	
Loss on heating	ASTM D6	%		0.5
Drop in penetration after heating	ASTM D5 & D6	%		20
Flash point	ASTM D92	°C	230	
Solubility in Trichloroethylene	ASTM D2042	%	99	
Organic matter insoluble in CS2	D-4	(wt)%		0.2
Spot test	A.A.S.H.O.T.102	Negative		

 corrosion protection that stays.