

RK NORTHWEST REFINING & ENERGY COMPANY BITUMEN EVALUATION DEPARTMENT

DATE: REPORT NO:

DESCRIPTION:

Bitumen Penetration Grade 100/150 is a standard penetration 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 "RK NORTHWEST REFINING & ENERGY COMPANY" is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The bitumen supplied by "RK NORTHWEST REFINING & ENERGY COMPANY" 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's 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.

PENETRATION BITUMEN GRADE 100-150 TECHNICAL DATA

N O	TEST DESCIRIPTION	UNIT	MIN	MAX	RESULT	TEST METHOD
1	Specific Gravity @ 25 °C	°C	1.01	1.25	1.03	ASTM D70
2	Penetration @ 25 °C	MM	100	150	125	ASTM D5
3	Softening Point @ 25 °C	°C	39	47	42	ASTM D36
4	Ductility @ 25 °C	CM	100		110	ASTM D113
5	Flash Point	°C	230		305	ASTM D92
6	Solubility In Trichloroethylene	%	99		99.87	ASTM D4
7	Loss On Heating	%		0.8	0.12	ASTM D6
8	Drop In Penetration After Heating	%	43		86	ASTM D5 & D6

Authorized Signatory Laboratory Manager: A.Tahmasebi Authorized Signatory
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