



RK NORTHWEST REFINING & ENERGY COMPANY
BITUMEN EVALUATION DEPARTMENT

DATE:

REPORT NO:

DESCRIPTION:

Bitumen Penetration Grade 85/100 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 85 – 100 TECHNICAL DATA

BITUMEN	60/70	85/100	
TEST DESCRIPTION	VALUE	VALUE	TEST METHOD
Specific Gravity @ 25 °C	1.01-1.06	1.01-1.05	ASTM D70
Penetration @ 25 °C	60/70	85/100	ASTM D5
Softening Point @ 25 °C	49/56	45/52	ASTM D36
Ductility @ 25 °C	100 min	100 min	ASTM D113
Flash Point	250	232	ASTM D92
Solubility In Trichloroethylene	99.5 min	99.5 min	ASTM D4
Drop In Penetration After Heating	20 max	20 max	ASTM D6 & D5

Authorized Signatory
Evaluation Department:

Authorized Signatory
Laboratory Manager: