



Bitumen Types and Their Uses:

- *Paving Grades* - road surfacing, and some industrial applications
- *Hard Grades* - paints and enamels etc
- *Oxidized/Blown Grades* - roofing, waterproofing, electrical products, and many others
- *Cutback Bitumen* - spraying and some mixing applications
- *Bitumen Emulsions* - used largely in road surfacing applications
- *Polymer Modified Binders (PMBs)* - there are different types and they can be used for many of the applications mentioned above

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Penetration Bitumen 80/100	Specification	Test Method
Specific Gravity @ 25/25 C	1.01-1.06	D-70
Penetration @ 25 C	80/100	D-5
Softening Point C	45/52	D-36
Ductility @ 25 C	100 Min	D-113
Loss On Heating (wt)%	0.5 Max	D-6
Drop In Penetration After Heating %	20 Max	D-6 & D-5
Flash Point C	225 Min	D-92
Solubility In CS (wt)%	99.5 Min	D-4
Organic Matter Insoluble In CS2 (wt)%	0.2 Max	D-4
Spot Test	Negative	*A.A.S.H.O.T.102

Description:

Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. Penetration Grade bitumen's 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.

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