

**Technical Data Sheet**

**Bitumen VG40**

Viscosity Grade Bitumen is a petroleum and have been specified in terms of their penetration grade and behavior changes according to its temperature. Viscosity Grade bitumen is specified by ASTM Standard and based on absolute Viscosity at 60C(140°F) or Kinematic Viscosity at 135C.

Viscosity thus defines the fluid property of the bituminous material. Viscosity is the general term for consistency and it is a measure of resistance to flow. Many researchers believe that grading of bitumen should be by an absolute viscosity in instead of the conventional penetration units.

**Applications:**

Viscosity Grade Bitumen is a standard 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 and possesses characteristics and qualities unique sand quite different from other agents.

Properties	Unit	Specification	Test Method
Absolute Viscosity @60°C, Poises	°c	Min 3200	IS 1206 (Part 2)
Kinematic Viscosity@ 135°C	cst	Min 400	IS 1206 (Part 3)
Softening point °c	°c	Min 50	IS 1205
Flash point	°c	Min 220	IS 1209
Solubility in CS2	%	Min 99	IS 1206
Penetration @ 25°C( 100 grams, 5 seconds)	0.1 mm	40-60	IS 1203
<b>Test on residue from thin film oven test/ RTFOT</b>			
Viscosity @ 60°C	°c	Max 4	IS 1206 (Part 2)
Ductility @25°C, (Thin film oven test)	Cm	Min 25	IS 1208
Specification Gravity@27/27	°c	Min 0.99	IS 1202
<b>Conforms to BIS(IS 73:2006) Specifications</b>			