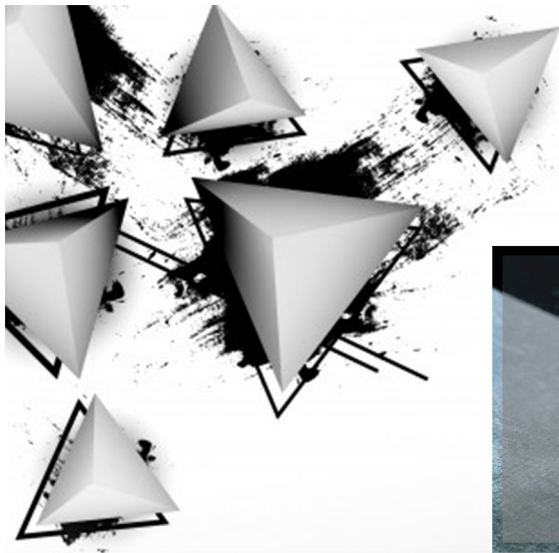




Viscosity Grade Bitumen

One of the most prominent methods of grading bitumen is based on the results of viscosity test. This test is done for determining the fluid property of bitumen. Conducting viscosity test on bitumen leads to the classification of bitumen in a range of grades from 10 to 40. It is worth to know that low viscosity bitumen is great for spraying and pavement maintenance, mainly because of its softness.

AC grades of bitumen are the equivalent of viscosity grades used in the United States. In other words, the AC-30 bitumen viscosity grade is equal to VG-30 in India.

VG bitumen is mostly used in roads construction, pavements, insulation, buildings, etc.



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Bitumen VG

CHARACTERISTICS	VG-10	VG-30	VG-40
Absolute Viscosity 60°C, Poises, min	800	2400	3200
Kinematic Viscosity, 135°C, CST, min	250	350	400
Flash Point, C, min	220	220	220
Solubility in Trichloroethylene, %, min	99	99	99
Penetration at 25° C	80-100	50-70	40-60
Softening Point, C, min	40	47	50
Tests on Residue from Thin Film Over Test / RTFOT:			
Viscosity Ratio at 60°C, max	4	4	4
Ductility at 25°C, cm, min, after thin film over test	75	40	25

