

Specification of Bitumen

Bitumen	Straight Grade *			Industrial Grades **								Method of Test
	30/40	20/40	10/20	80/90	110/120	85/40	85/25	90/15	115/15	135/10	155/6	
LS Grade	5.35	6.8/25	7.5/15			85/40	85/25	90/15	115/15	135/10	115/6	
Specific Gravity at 27°C minimum	0.99	1.00/1.05	1.03/1.05	1.03/1.08	1.04/1.09	1.00-1.05	1.01-1.05	1.01-1.06	1.01-1.06	1.02-1.07	1.02-1.07	IS:1202:1978
Flash Point, Pensky martens Closed Type, °C minimum	175	175	200	200	200	225	225	228	225	225	228	IS:1202:1978
Softening Point, °C	50 to 65	50 to 70	65 to 80	80 to 90	110 to 120	80 to 90	80 to 90	85 to 100	110 to 120	130 to 140	150 to 160	IS:1205:1978
Penetration at 25 °C, 100g, 5 sec, in 1/100 cm	30 to 40	20 to 30	10 to 20	6 to 12	3 to 7	35 to 45	20 to 30	10 to 20	8 to 20	7 to 12	2 to 10	IS:1203:1978
Ductility at 27 °C, in cm minimum	12	10	2.5			3	3	2	2	1	0	IS:1208:1978
Loss on heating, percent by weight, maximum	1	0.30	0.30	0.10	0.10	0.30	0.30	0.30	0.30	0.30	0.30	IS:1212:1978
Percent by weight soluble in carbon-disulphide, min	99	99	99	99	99	99	99	99	99	99	99	IS:1216:1978
Industrial Uses												
Water Proofing												
Lamination Industry												
Bituminous Paper												
Paints, Varnishes and Japans												
Cold Storage & Refrigeration												
Printing Inks												
Electrical Cable Junction Boxes												
Electrical Cable Manufacture												
Battery Containers												
Battery Sealing Compounds												
Rubber Industry												
Pipe Coating												
Joint Filling Compounds												
Mastic for flooring & roofing												
Damp Proof Courses												
Coal Briquetting												