



| S.No. | Characteristic | Unit | VG 10 | VG 20 | VG 30 | VG 40 | Test Method |
|-------|--|----------------|-----------|----------|----------|----------|------------------------|
| I) | Absolute viscosity at 60 ^o C, min | Poises | 800 | 1600 | 2400 | 3200 | IS 1206(Part 2) : 1978 |
| II) | Kinematic viscosity at 135 ^o C, min | cst | 250 | 300 | 350 | 400 | IS 1206(Part 3) : 1978 |
| III) | Flash Point, Cleveland open cup, min. | ^o C | 220 | 220 | 220 | 220 | IS 1209 : 1978 |
| IV) | Matter soluble in trichloroethylene, min. | % wt | 99 | 99 | 99 | 99 | IS 1216 : 1978 |
| V) | Penetration at 25 ^o C, 100 gm, 5 sec. | 1/10 mm | 80 to 100 | 60 to 80 | 50 to 70 | 40 to 60 | IS 1203 : 1978 |
| VI) | Softening Point, min | ^o C | 40 | 45 | 47 | 50 | IS 1205 : 1978 |
| VII) | Tests on residue from thin film oven test / RTFOT | | | | | | |
| | a) Viscosity ratio at 60 ^o C, max | | 4 | 4 | 4 | 4 | IS 1206(Part 2) : 1978 |
| | b) Ductility at 25 ^o C after thin film oven test, min | cm | 75 | 50 | 40 | 25 | IS 1208 : 1978 |

Product confirm to IS 73 : 2006 specification for Bitumen viscosity grade



| Grade | Minimum Pumping temp. °C | Mixing/Coating temp. ° C | Laying temp° C | Spraying temp° C | Mixing safe Handling temp° C |
|-------|--------------------------|--------------------------|----------------|------------------|------------------------------|
| VG 10 | 105 | 150-163 | 130-160 | 175 | 175 |
| VG 30 | 115 | 150-165 | 130-160 | - | 175 |
| VG 40 | 125 | 160-175 | 140-160 | - | 175 |