



BUOYANCY®
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Penetration Grade – Bitumen 60/70

Penetration grade Bitumen 60/70 delivered by BUOYANCY® is produced in compliance to AASTHO M20-70 and ASTM D946/D946M Standards. Bitumen 60/70 is commonly used for the production of asphalt pavements with superior properties and for construction and maintenance of roads. It is also commonly used to manufacture asphalt mixes, bitumen emulsion, cut-back bitumen, and modified bitumen. Bitumen 60/70 has the highest boiling point, heaviest and most polar fraction from the vacuum distillation of crude oil.

All Penetration Grades Bitumen Exported by BUOYANCY® are of petroleum grade, produced from fractional distillation of crude oil and vacuum residue (short residue) feedstock. The penetration grade bitumen has a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature-viscosity relationship is important when determining the performance parameters such as the rheology, adhesion, durability and application temperatures of bitumen.

| Properties | Units | Result | Test Methods |
|-----------------------------------|-------|-----------|--------------|
| Specific Gravity @25°C | - | 1.01-1.05 | ASTM D-70 |
| Penetration @25°C, 100gm, 5sec | 0.1MM | 60-70 | ASTM D-5 |
| Softening Point, Ring & Ball | °C | 46 Min | ASTM D-36 |
| Ductility @25°C after TFOT | CM | 100 | ASTM D-113 |
| Loss on Heating, Max | %WT | 0.2Max | ASTM D-6 |
| Drop in Penetration after heating | % | 20 Max | ASTMD 5 |
| Flash Point | °C | 232 min | ASTM D-92 |
| Solubility in Trichloroethylene | %WT | 99.9 | ASTM D-4 |
| Kinematic Viscosity at 60°C | P | 2000±400 | ASTMD2171 |
| Kinematic Viscosity at 135° C | Cst | 300 Min | ASTMD2170 |
| Spot Test | | | |
| Standard Naptha Solvent | % | Negative | AASHTO T102 |
| Naptha –Xylene Solvent | % | Negative | AASHTO T102 |
| Spot Test | -- | Negative | AASHTO T102 |

Packing available: 150 ± 3 Kg, 180 Kg ± 3Kg, 200 Kg ±3Kg Net weight Steel drums and/or 300 Kg, 1000 Kg Poly/Jumbo bags

Storage and Handling Recommendations: Store in unopened containers. Storage temperature limits 1°C - 50°C. For normal operations, such as blending and transferring liquid bitumen, temperatures of 10°C - 40°C Above the minimum pumping temperature are recommended.

Recommended Application Temperatures:

Storing: 120°C - 150°C, Mixing: 135°C - 155°C, Compacting: 125°C - 145°C

Accredited: ISO9001:2015 | ISO 14001:2015 | ISO45001:2018