



BUOYANCY®
IMPEX PVT. LTD.

- 📍 "C" Tower, 10th Floor, Hampton Park, Vesu, Surat 395007 Gujarat, India
- ☎ +91 99250 53193
+91 99250 53069
- ✉ info@buoyancyimpex.com
buoyancyinc@gmail.com

Penetration Grade – Bitumen 160/220

Paving grade Bitumen 160/220 delivered by BUOYANCY® is produced in compliance to EN 12591 Standards. Bitumen 160/220 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. This grade of bitumen is used for road paving sector for the realization of asphalt mixtures for roadways, runways, pavement, track race and landing platform.

All 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 | Unit | Results | Test Methods |
|--|--------------------|--------------|---------------------|
| Penetration @ 25 °C, 100gm, 5sec | 0.1MM | 160-220 | EN 1426 |
| Softening Point, Ring & Ball | °C | 35-43 | EN 1427 |
| Flash point (Cleveland Open) | °C | 220 Min | EN 22592 |
| Specific Gravity 25/25 ° C | - | 1.00 -1.07 | EN ISO 3838 |
| Penetration Index | - | -0.5 to +1.7 | EN 12591 Annexure A |
| Solubility in CS2 | % wt | 99.5 | EN 12592 |
| Dynamic viscosity @ 60°C | mm ² /s | 30 | EN 12596/EN13702 |
| Dynamic Viscosity @ 135°C | mm ² /s | 135 | EN 12596/EN13702 |
| Resistance to hardening RTFOT Method test to EN 12607-1 | | | |
| Increase in softening Point (R&B) | °C | 37 | EN 1427 |
| Retained Penetration@25°C, Min | % wt | 37 | EN 1426 |
| Change in Mass, Max | % wt | 1.0 | EN 12607-1 |
| Softening Point after hardening | °C | 12 | EN 1427 |

Packing available: 150 ± 3 Kg, 180 Kg ± 3Kg, 200 Kg ± 3Kg Net weight Steel drums and/or 300 Kg, 1000 Kg Polybags / 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 is recommended.

Approximate temperatures:

Storage 160-170°C, Mixing 160-180°C, Compaction 150-170°C

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