



**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 70/100

Penetration Grade Bitumen 70/100 is commonly used in road construction, surfacing and some industrial applications. All penetration grades supplied by BUOYANCY® are petroleum grade and manufactured from fractional / vacuum distillation of crude oil produced from vacuum residue feedstock. They are fully compliant to ASTM and AASHTO, equivalent to EN and BS international standards and test methods.

Penetration Grade bitumen are specified by the penetration and softening point test. 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 adhesion, rheology, durability and application temperatures of bitumen. Penetration grade bitumen is also used to manufacture asphalt mixes, cutback bitumen, emulsions and modified grades.

Properties	Units	Results	Test Methods
Penetration @25°C, 100g/ 5s	0.1mm	70-100	EN 1426
Softening Point, Ring & Ball	°C	43-51	EN 1427
<b>Resistance to Hardening@163°C</b>			
Change in Mass	%	0.8	EN 12607-1
Retained Penetration@25°C	0.1mm	46	EN12607-1
Softening point after hardening, Min	°C	45	EN12607-1
<b>Other Properties</b>			
Flash Point Cleveland open cup, Min	°C	240 Min	EN ISO 22592
Solubility in CS <sub>2</sub> , Min	%Wt	99.0	EN 12592
Kinematic viscosity @135 °C	mm <sup>2</sup> /s	230	EN12592
Paraffin Wax Content, Max	%Wt	4.5 Max	EN12606-2
Penetration Index	-	-1.5 to 0.7	EN12591-Annexure A

**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 are recommended.

**Recommended Application Temperatures:** Asphalt mixing temperature: 150°C - 160°C.

**Asphalt compaction temperature:** 135°C - 145°C.

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