



Technical Data Sheet (TDS) – Bitumen PG 70-22

Product Overview

Bitumen PG 70-22 is a performance-graded asphalt binder designed for **high-temperature climates** and **heavy traffic loads**. It offers excellent resistance to rutting at high temperatures and controlled flexibility at low temperatures, making it ideal for highways, urban roads, and industrial pavements.

Technical Properties – PG 70-22

Property	Test Method	Unit	Typical Value
Performance Grade	AASHTO M320	—	PG 70-22
Specific Gravity @25°C	ASTM D70	g/cm ³	1.01 – 1.03
Flash Point	ASTM D92	°C	≥ 230
Rotational Viscosity @135°C	ASTM D4402	Pa·s	≤ 3.0
Dynamic Shear, Original (G*/sinδ)	AASHTO T315	kPa	≥ 1.00 @ 70°C
Dynamic Shear, RTFO (G*/sinδ)	AASHTO T315	kPa	≥ 2.20 @ 70°C
Mass Loss (RTFO)	ASTM D2872	%	≤ 1.0
Dynamic Shear, PAV (G*·sinδ)	AASHTO T315	kPa	≤ 5000 @ 25°C
Bending Beam Stiffness (S)	AASHTO T313	MPa	≤ 300 @ -12°C
Bending Beam m-value	AASHTO T313	—	≥ 0.300
Elastic Recovery (if modified)	ASTM D6084	%	≥ 75
Solubility	ASTM D2042	%	≥ 99.0
Water Content	ASTM D95	%	≤ 0.2
Appearance	Visual	—	Black, homogeneous
Odor	Sensory	—	Mild petroleum



Application Temperature

Operation	Temperature Range
Storage	140 – 170°C
Mixing	150 – 165°C
Compaction	140 – 160°C

Packaging Options

Packaging Type	Net Weight
Steel Drum	180 kg
Jumbo Bag	1 MT
Bulk Tanker	As requested

Storage & Handling

- Store in insulated tanks or sealed steel drums
- Avoid prolonged overheating
- Use heat-resistant PPE during handling
- Keep away from moisture and ignition sources

Standards & Compliance

- AASHTO M320
- ASTM Standards
- EN Asphalt Binder Guidelines
- Suitable for international road specifications