



Technical Data Sheet (TDS)

Product Name: Bitumen PG 82-22

Product Type: Performance Grade Asphalt Binder

Application: Asphalt paving, heavy-duty pavements, highways, airports

Product Description

Bitumen PG 82-22 is a high-performance **polymer-modified asphalt binder** designed to meet the requirements of the Superpave Performance Grading system. It offers excellent resistance to rutting at high pavement temperatures while maintaining flexibility at low temperatures.

This binder is commonly used in **high traffic pavements, airport runways, highways, and demanding infrastructure projects** where superior durability and performance are required.

Typical Applications

- Highway and motorway pavements
- Airport runways and taxiways
- Heavy traffic urban roads
- Industrial and logistics zones
- High-temperature climate regions

Typical Properties

Property	Test Method	Specification
Performance Grade	AASHTO M320	PG 82-22
Flash Point	ASTM D92	$\geq 230^{\circ}\text{C}$
Viscosity at 135°C	ASTM D4402	$\leq 3 \text{ Pa}\cdot\text{s}$
Dynamic Shear ($G^*/\sin \delta$) Original	AASHTO T315	$\geq 1.00 \text{ kPa}$
Dynamic Shear (RTFO Aged)	AASHTO T315	$\geq 2.20 \text{ kPa}$
Bending Beam Rheometer	AASHTO T313	$\leq 300 \text{ MPa}$
m-value	AASHTO T313	≥ 0.300
Elastic Recovery	ASTM D6084	$\geq 60\%$
Storage Stability	ASTM D7173	Pass

Values may vary slightly depending on production batch.



Advantages

- High rutting resistance
- Excellent high temperature performance
- Good flexibility at low temperatures
- Improved fatigue resistance
- Long service life in heavy traffic conditions

Handling and Storage

Bitumen PG 82-22 should be stored in heated tanks between:

150°C – 180°C

Avoid prolonged overheating to prevent binder aging.

Use insulated tanks and proper circulation systems to maintain uniform temperature.

Packaging

Available in:

- Bulk tanker delivery
- Bitutainer containers
- Steel drums (upon request)

Shelf Life

Unlimited when stored in appropriate heated storage tanks under controlled conditions.

Supplier

ATDM
Global Supplier of Bitumen and Asphalt Materials