



Technical Data Sheet (TDS)

Viscosity Grade Bitumen VG 10

Product Description

Viscosity Grade Bitumen VG 10 is a petroleum-based asphalt binder designed for road construction, asphalt pavement production, and infrastructure applications. VG 10 Bitumen is classified according to viscosity performance and provides excellent adhesion, workability, and binding properties for asphalt mixtures.

Moreover, VG 10 is widely used as a **Paving Grade Bitumen VG 10** and **Road Grade Bitumen VG 10** for projects requiring reliable pavement performance, good mixing characteristics, and consistent quality.

Product Name

Viscosity Grade Bitumen VG 10

Product Classification

- Asphalt Binder
- Paving Grade Bitumen
- Road Construction Bitumen
- Petroleum Asphalt Material

Applicable Standards

VG 10 Bitumen can comply with internationally recognized standards, including:

- ASTM standards
- AASHTO specifications
- EN standards
- Customer-specific project specifications

(Actual compliance depends on production requirements and buyer specifications.)



VG 10 Bitumen Technical Specifications

Property	Test Method	Specification
Absolute Viscosity at 60°C	ASTM D2171	800 – 1200 Poise
Kinematic Viscosity at 135°C	ASTM D2170	Minimum 250 cSt
Penetration at 25°C	ASTM D5	80 – 100 dmm
Softening Point	ASTM D36	Minimum 40°C
Flash Point	ASTM D92	Minimum 220°C
Solubility in Trichloroethylene	ASTM D2042	Minimum 99%
Ductility at 25°C	ASTM D113	Minimum 75 cm
Specific Gravity at 25°C	ASTM D70	Approx. 1.01 – 1.06

Physical Characteristics

Parameter	Description
Appearance	Black, homogeneous asphalt material
Form	Solid or semi-solid at ambient temperature
Odor	Typical petroleum asphalt odor
Color	Dark black
Adhesion	Excellent aggregate bonding capability
Storage Stability	Stable under recommended storage conditions

Key Performance Benefits

High Binding Strength

VG 10 Bitumen provides strong adhesion between aggregates and asphalt components. Therefore, it helps produce stable pavement structures with improved durability.

Excellent Workability

Furthermore, its viscosity characteristics allow asphalt manufacturers to achieve effective mixing, transportation, and compaction during pavement construction.



Reliable Pavement Performance

VG 10 supports smooth asphalt surfaces and helps improve resistance against regular traffic stress when used with proper pavement design.

Suitable Temperature Performance

Moreover, VG 10 Bitumen provides balanced performance in moderate climate conditions and supports various road construction applications.

Main Applications

VG 10 Bitumen uses include:

- Highway construction
- Urban road paving
- Asphalt pavement production
- Road maintenance projects
- Airport pavement applications
- Industrial roads
- Infrastructure development projects

Furthermore, asphalt producers use VG 10 as a reliable **Asphalt Binder VG 10** for hot mix asphalt manufacturing.

Packaging Options

VG 10 Bitumen is available in different packaging solutions according to customer requirements.

Standard Export Packaging

- New steel drums
- Jumbo bags
- Bulk tanker shipment
- Containerized shipment



Moreover, suppliers can customize packaging according to destination country regulations and transportation requirements.

Storage and Handling Recommendations

- Store in a dry and protected area.
- Avoid contamination with water or foreign materials.
- Maintain suitable temperature during handling.
- Follow standard industrial safety procedures.

Furthermore, proper storage conditions help maintain product quality during transportation and before application.

Quality Control

A professional **VG 10 Bitumen manufacturer** performs quality inspections throughout production. Testing usually includes:

- Viscosity testing
- Penetration testing
- Softening point analysis
- Flash point testing
- Solubility testing
- Ductility measurement

Therefore, buyers should request a Certificate of Analysis (COA) and **VG 10 Bitumen technical data sheet** before purchasing.

Export Documentation

A reliable VG 10 Bitumen exporter can provide:

- Commercial Invoice
- Packing List
- Certificate of Origin
- Certificate of Analysis (COA)
- Technical Data Sheet (TDS)
- Bill of Lading
- Shipping Documents



Shelf Life

VG 10 Bitumen maintains quality when stored correctly in sealed packaging and under recommended storage conditions. The actual shelf life depends on packaging type, storage environment, and handling practices.

Important Note

The values listed in this technical data sheet represent typical specifications for VG 10 Bitumen. Actual product specifications may vary according to manufacturing standards, customer requirements, and applicable regional regulations.

For accurate purchasing decisions, buyers should request the latest product certificate and laboratory test report from the supplier.