



TDS – Chinese Standard Bitumen AH 90

Product Identification

Product Name: Chinese Standard Bitumen AH 90

Grade: AH-90

Product Type: Heavy Traffic Road Petroleum Bitumen

Standard: GB/T 15180-2025

Appearance: Black solid or semi-solid petroleum bitumen

Main Use: Road paving, asphalt concrete production, highways, urban roads, flexible pavements, and road rehabilitation.

Product Description

Chinese Standard Bitumen AH 90 is a paving-grade petroleum asphalt designed for road construction and asphalt production. Its penetration range provides a relatively flexible binder suitable for selected pavement designs.

The product provides good aggregate binding, workable temperature behavior, and suitable ductility for asphalt applications. Engineers should select the grade according to climate, traffic conditions, pavement design, aggregate properties, and project specifications.

Technical Specifications

The following requirements correspond to AH-90 under **GB/T 15180-2025**.

Property	Specification	Test Method
Penetration at 25°C, 100 g, 5 sec	80–100 (0.1 mm)	GB/T 4509
Softening Point	42–55°C	GB/T 4507
Ductility at 15°C, 5 cm/min	Min. 100 cm	GB/T 4508
Solubility	Min. 99.0%	GB/T 11148
Flash Point, Open Cup	Min. 230°C	GB/T 267
Density at 25°C	Report actual value	GB/T 8928
Wax Content	Max. 3.0%	NB/SH/T 0425
TFOT at 163°C, 5 h – Absolute Mass Change	Max. 0.8%	GB/T 5304
Penetration Ratio after TFOT	Min. 50%	GB/T 4509



Property	Specification	Test Method
Ductility at 15°C after TFOT	Min. 40 cm	GB/T 4508

Key Performance Characteristics

- Penetration range of 80–100
- Good flexibility for suitable pavement designs
- Strong binding performance with mineral aggregates
- Suitable ductility for road paving applications
- Controlled softening characteristics
- Good workability during asphalt mixing
- Suitable for flexible pavement construction
- Designed for heavy-traffic road asphalt applications

Main Applications

AH 90 Bitumen can be used for:

- Highway construction
- Urban road paving
- Flexible pavement
- Asphalt concrete production
- Hot-mix asphalt
- Asphalt mixing plants
- Road rehabilitation
- Road overlays
- Binder for aggregate mixtures
- General pavement construction

Final grade selection should follow the approved asphalt mix design and project specification.

Packaging

Depending on current supply and destination requirements, AH 90 Bitumen may be available in:

- New steel drums
- Jumbo bags, where available
- Bulk supply for suitable large-volume projects



Packaging size, container loading quantity, and bulk availability should be confirmed before ordering.

Storage

Store the product in clean tanks and equipment designed for bituminous materials.

Avoid contamination with water, solvents, fuel, dust, or other petroleum products. In addition, avoid unnecessary overheating or prolonged exposure to high temperatures because excessive heating can accelerate oxidation and binder hardening.

Handling

Use appropriate heat-resistant personal protective equipment when handling hot bitumen.

Follow the official product MSDS and applicable workplace safety procedures during heating, pumping, loading, unloading, and asphalt production.

Quality Documentation

Depending on contractual requirements, buyers may request:

- Technical Data Sheet (TDS)
- Material Safety Data Sheet (MSDS/SDS)
- Certificate of Analysis (COA)
- Certificate of Origin
- Inspection Certificate, when required
- Packing List
- Commercial Invoice

Important Note

Technical properties may vary slightly according to production batch and source. The shipment-specific **Certificate of Analysis should confirm the actual tested values.**

Buyers should always specify the required standard, application, packaging, quantity, and destination before placing an order.