



TECHNICAL DATA SHEET

Chinese Standard Bitumen AH 70

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Supplier/Exporter: Basekim

1. Product Description

Chinese Standard Bitumen AH 70 is a penetration-grade paving asphalt binder produced from petroleum residue, corresponding to the 70# grade under Chinese national road bitumen standards. It is intended for use as a binder in hot mix asphalt, road construction, urban paving, and pavement maintenance applications.

Item	Detail
Product Name	Chinese Standard Bitumen AH 70
Grade	70# Penetration Grade (AH-70)
Classification	Heavy-Traffic Road Petroleum Asphalt
Appearance	Black, semi-solid, viscous material at ambient temperature
Origin	China
Reference Standard	Chinese national/industry road bitumen standard (applicable grade)

2. Technical Specifications

Property	Unit	Specification (Typical)	Test Method
Penetration at 25°C, 100g, 5s	0.1 mm	60 – 80	ASTM D5 / GB/T 4509
Softening Point (Ring & Ball)	°C	≥ 46	ASTM D36 / GB/T 4507
Ductility at 15°C, 5 cm/min	cm	≥ 100	ASTM D113 / GB/T 4508
Ductility at 10°C, 5 cm/min	cm	≥ 20 (where specified)	ASTM D113 / GB/T 4508
Flash Point (Cleveland Open Cup)	°C	≥ 260	ASTM D92 / GB/T 267
Solubility in Trichloroethylene	%	≥ 99.5	ASTM D2042 / GB/T 11148



Property	Unit	Specification (Typical)	Test Method
Wax Content	%	≤ 2.2	GB/T 11147
Density at 15°C	g/cm ³	1.00 – 1.10	GB/T 8928
Flash Point	°C	≥ 260	ASTM D92
After Thin-Film / Rolling Thin-Film Oven Test (TFOT/RTFOT):			
Mass Loss	%	≤ 0.8	ASTM D2872 / GB/T 5304
Retained Penetration Ratio	%	≥ 61	GB/T 5304
Ductility at 15°C (residue)	cm	≥ 15	GB/T 5304

Note: Values above represent typical requirements associated with Chinese Standard Bitumen AH 70 (70# penetration grade). Actual specification limits may vary depending on the applicable Chinese standard, refinery of origin, production batch, and contractual agreement. Buyers should request the current Certificate of Analysis (COA) for the specific shipment to confirm final values before purchase or use in mix design.

3. Applications

- Highway and expressway asphalt pavement layers
- Urban and municipal road construction
- Hot mix asphalt (HMA) production
- Road maintenance and pavement rehabilitation
- Infrastructure and airport paving projects, subject to project specification review

4. Packaging

Option	Description
New Steel Drums	Standard export drums, typically ~180–200 kg net weight per drum
Bulk Tanker	Bulk sea or land tanker delivery for large-volume, heated-storage buyers
Bitutainer / Containerized Bulk	Containerized bulk system, where available, for flexible port handling
Jumbo Bags	Available for select projects where technically and commercially suitable



Packaging selection should account for destination port infrastructure, shipment quantity, storage capability, and local import requirements.

5. Storage & Handling

- Store in a dry, well-ventilated area away from open flame and ignition sources.
- Maintain heated storage within a controlled temperature range to preserve workability; avoid prolonged overheating, which can accelerate aging.
- Prevent contamination from water, dust, or foreign materials.
- Use appropriate personal protective equipment (PPE) when handling hot bitumen.
- Ensure adequate ventilation in areas where bitumen is heated or applied.
- Refer to the current Safety Data Sheet (SDS/MSDS) for detailed handling, first-aid, and emergency procedures.

6. Shelf Life

When stored correctly in sealed original packaging or properly maintained heated tanks, Chinese Standard Bitumen AH 70 typically remains suitable for use for an extended period. Buyers should avoid repeated reheating and prolonged high-temperature storage, both of which can affect penetration, softening point, and aging performance over time.

7. Available Documentation

Buyers may request the following documents in connection with a shipment:

- Technical Data Sheet (TDS) — this document
- Safety Data Sheet (SDS/MSDS)
- Certificate of Analysis (COA) — batch-specific
- Commercial Invoice
- Packing List
- Certificate of Origin (where applicable)
- Third-party inspection report (where arranged)



8. Disclaimer

The information in this Technical Data Sheet reflects typical properties associated with Chinese Standard Bitumen AH 70 and is provided for general reference. It does not constitute a guarantee of specific batch performance. Actual properties may vary by production source, refinery, and shipment. Buyers should confirm final specifications through the batch-specific Certificate of Analysis and evaluate suitability against their own project, climate, and pavement design requirements before use.

Supplier/Exporter: Basekim For a current Certificate of Analysis, quotation, or packaging details for a specific order, please contact your Basekim representative.