

# TECHNICAL DATA SHEET BITUMEN — PENETRATION GRADE 20/30 (EN 12591)

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## 1. Product Description

ATABAŞ GLOBAL supplies Penetration Grade 20/30 bitumen, a hard-grade, distillation-derived paving and industrial bitumen manufactured in accordance with EN 12591. The product is a homogeneous, black, semi-solid to solid thermoplastic material produced by the atmospheric and vacuum distillation of selected crude oil residues, without the addition of any flux, solvent, or extraneous material. Its low penetration and high softening point make it suitable for applications requiring high stiffness and resistance to deformation at elevated service temperatures.

Origin: Republic of Iraq and/or Republic of Türkiye, as agreed per shipment. Both origins are supplied ex-refinery/ex-terminal networks that ATABAŞ GLOBAL maintains long-standing offtake relationships with, and each cargo is accompanied by a Certificate of Origin and a Certificate of Quality issued at the point of loading.

## 2. Applications

- Manufacture of oxidised (blown) bitumen and industrial bitumen grades as a hard-grade feedstock
- Production of polymer-modified bitumen (PMB) where a low base penetration is required
- Waterproofing membranes, roofing felt, and industrial coating compounds
- Heavy-duty pavement and airport apron surfacing in hot-climate regions requiring high rutting resistance
- Bitumen mastic and joint-sealing compound manufacture

## 3. Technical Specification

Base properties, tested on the material as supplied:

| Property                         | Test Method      | Unit               | Specification (20/30) |
|----------------------------------|------------------|--------------------|-----------------------|
| Penetration @ 25 °C, 100 g, 5 s  | EN 1426          | 0.1 mm             | 20 – 30               |
| Softening Point (Ring & Ball)    | EN 1427          | °C                 | 55 – 63               |
| Kinematic Viscosity @ 135 °C     | EN 12595         | mm <sup>2</sup> /s | 530 min               |
| Dynamic Viscosity @ 60 °C        | EN 12596         | Pa·s               | 1,400 min             |
| Penetration Index (PI)           | EN 12591 Annex A | —                  | –1.5 to +0.7          |
| Solubility in Trichloroethylene  | EN 12592         | % m/m              | 99.0 min              |
| Flash Point (Cleveland Open Cup) | EN ISO 2592      | °C                 | 240 min               |
| Fraass Breaking Point            | EN 12593         | °C                 | –5 max                |
| Density @ 25 °C                  | EN 15326         | kg/m <sup>3</sup>  | 1,000 – 1,060         |



Huzur Mahallesi, Azerbaijan Caddesi,  
Skyland İstanbul 4 B Blok, 27. Kat,  
Daire 389-390-391, Sarıyer / İstanbul, Türkiye



+90 212 801 64 60



info@atabas.com.tr



www.atabas.com.tr

Vergi No: 8360813811

MERSİS No: 0836081381100001

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Resistance to hardening, tested on the Rolling Thin Film Oven Test (RTFOT) residue:

| Property (after RTFOT, 163 °C / 85 min) | Test Method | Unit          | Specification |
|-----------------------------------------|-------------|---------------|---------------|
| Change of Mass                          | EN 12607-1  | % m/m         | 0.5 max       |
| Retained Penetration @ 25 °C            | EN 1426     | % of original | 55 min        |
| Increase in Softening Point             | EN 1427     | °C            | 10 max        |

## 4. Packaging

- Steel drums, 180 kg net each, new or reconditioned, epoxy-lined, palletised 4 drums/pallet
- Jumbo (FIBC) bulk bags, 1,000 – 1,200 kg net each, in perforated steel cages for cooling and de-moulding, standard for hard-grade bitumen
- Bulk (molten, insulated tank trucks / bitutainers / bitumen tankers) — subject to buyer's receiving-terminal capability and confirmed on the Sales Contract

All packaging is marked with product grade, batch/lot number, gross/net weight, production date, and country of origin, in accordance with the buyer's instructions and applicable IMO/ADR requirements for the mode of transport used.

## 5. Handling & Storage Conditions

| Parameter                                  | Recommended Range                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|
| Storage temperature (bulk, insulated tank) | 160 – 180 °C                                                                                     |
| Pumping / loading temperature              | 170 – 190 °C                                                                                     |
| Maximum safe heating temperature           | 200 °C (do not exceed — risk of oxidation and flash-point hazard)                                |
| Drummed / bagged product storage           | Ambient, under cover, protected from direct sun and rain, stacked per pallet manufacturer limits |
| Shelf life (drummed/bagged, unopened)      | 24 months from production date under recommended storage                                         |

## 6. Refinery / Loading Network

Indicative network for the two approved origins. Specific refinery/terminal identity for a given shipment is confirmed at contract stage and, consistent with ATABAŞ GLOBAL's standing policy, upstream source disclosure beyond this is subject to the terms expressly agreed in the Sale & Purchase Agreement.

| Region / Governorate    | Refining / Blending Capability                                    | Nearest Export Point | Indicative Distance | Road |
|-------------------------|-------------------------------------------------------------------|----------------------|---------------------|------|
| Basra Governorate, Iraq | Southern Refineries Complex — heavy/hard grade bitumen production | Umm Qasr Port        | 35 – 60 km          |      |
| Basra Governorate, Iraq | Khor Al-Zubair petrochemical & bitumen terminal                   | Khor Al-Zubair Port  | 20 – 40 km          |      |



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|                             |                                               |                                             |              |
|-----------------------------|-----------------------------------------------|---------------------------------------------|--------------|
| Missan / Maysan, Iraq       | Amara refinery bitumen unit                   | Umm Qasr Port (overland)                    | 180 – 220 km |
| Kirkuk / KRI, Iraq          | Northern refineries (overland export routing) | Habur border → Mersin / İskenderun, Türkiye | 550 – 650 km |
| Mersin / Adana, Türkiye     | Coastal refinery & bitumen tank-farm network  | Mersin Port                                 | 10 – 30 km   |
| İskenderun / Hatay, Türkiye | İskenderun refinery & storage terminals       | İskenderun Port                             | 10 – 25 km   |

## 7. Delivery Lead Time

- Drummed / bagged, ex-stock: 7 – 10 working days from confirmed order and payment instrument
- Drummed / bagged, produced-to-order: 15 – 25 working days
- Bulk cargo (vessel/tanker), FOB/CFR: per shipping schedule confirmed on the Sales Contract, typically 20 – 35 days including vessel nomination

## 8. Quality Assurance & Inspection

- Each production batch is tested in the supplying refinery/terminal laboratory against the specification in Section 3
- Independent third-party inspection (SGS, Intertek, Bureau Veritas or buyer's nominated agency) available at loading, at buyer's cost unless otherwise agreed
- Certificate of Quality (CoQ) and Certificate of Origin (CoO) issued per shipment / batch
- Retained samples held for 90 days from shipment date for post-delivery dispute resolution

## 9. Documentation Provided

- Technical Data Sheet (this document)
- Safety Data Sheet (SDS/MSDS), 16-section GHS format — issued as a companion document
- Certificate of Quality / Certificate of Analysis
- Certificate of Origin
- Packing List and Commercial Invoice
- Bill of Lading / CMR (as applicable to the transport mode)

## 10. Safety Notice

Bitumen at handling and storage temperature presents a thermal burn hazard, and hot bulk cargo can accumulate hydrogen sulphide (H<sub>2</sub>S) vapour in tank headspace. Full hazard identification, handling precautions, and emergency response information are provided in the accompanying Safety Data Sheet (ATB-SDS-BIT-2030-2026-002), which must be read and made available to all personnel handling this product prior to loading, transport, or storage.

### SANCTIONS AND TRADE COMPLIANCE

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its business in full compliance with the economic and trade sanctions regimes administered by the United States (OFAC), the European Union, the United Kingdom (OFSI) and the United Nations Security Council. ATABAŞ does not work with sanctioned countries, sanctioned companies, sanctioned individuals or sanctioned vessels, and does not supply, source, finance or transport goods in breach of these regimes. All counterparties are subject to Know-Your-Customer and sanctions screening before contract signature and throughout performance.

## 11. Disclaimer

The information contained in this Technical Data Sheet is provided in good faith and is believed to be accurate as of the issue date, based on data supplied by the producing refinery/terminal and standard industry references. It is provided for general guidance only and does not constitute a guarantee of specific properties for any individual shipment; final specification is governed exclusively by the Certificate of Quality Issued for that shipment and the terms of the applicable Sale & Purchase Agreement. ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ reserves the right to amend this document without prior notice.



Haberler  
Skype: atabas.tr  
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