



Technical Data Sheet (TDS)

Oxidized Bitumen 85/25

Product Description

Oxidized Bitumen 85/25 is an air-blown petroleum bitumen produced by passing air through penetration-grade bitumen under controlled temperature conditions. It is characterized by high softening point, low penetration, excellent adhesive properties, water resistance, and chemical stability. The designation 85/25 indicates a softening point of approximately 85°C and a penetration value of approximately 25 dmm.

Typical Applications

- Roofing membranes
- Waterproofing systems
- Pipe coating
- Joint fillers and sealants
- Battery compounds
- Mastic asphalt
- Soundproofing and vibration damping materials
- Industrial protective coatings

Typical Properties

Property	Test Method	Unit	Specification
Softening Point (R&B)	ASTM D36	°C	80 – 90
Penetration at 25°C	ASTM D5	0.1 mm (dmm)	20 – 30
Loss on Heating	ASTM D6	wt%	Max. 0.5
Flash Point (COC)	ASTM D92	°C	Min. 250
Solubility in CS ₂ or TCE	ASTM D4	wt%	Min. 99.0
Specific Gravity @ 25°C	ASTM D70	-	1.01 – 1.06
Ductility @ 25°C	ASTM D113	cm	Min. 1.0
Spot Test	AASHTO T102	-	Negative

Performance Characteristics

- High thermal stability
- Excellent resistance to water penetration
- Good adhesion to concrete, metal, and masonry surfaces
- Resistant to mild acids and alkalis



- Durable under varying environmental conditions

Packaging

Available in:

- 25 kg kraft paper bags
- 50 kg blocks
- 180 kg steel drums
- Meltable plastic bags
- Bulk tankers upon request

Storage and Handling

- Store in a dry, covered area away from direct sunlight.
- Avoid contact with water during heating operations.
- Recommended application temperature: 180–220°C.
- Use appropriate personal protective equipment when handling hot material.

Shelf Life

When stored under recommended conditions, Oxidized Bitumen 85/25 has an indefinite shelf life.

Disclaimer

The values shown are typical production values and should not be considered as guaranteed specifications. Users should verify suitability for their specific application.