



1. Product Identification

Product Name: Bitumen 75/25

Type: Oxidized Bitumen

Also Known As: Oxidized bitumen 75/25, Blown bitumen 75/25

Application Category: Roofing, Waterproofing, Industrial Coating

Supplier: ATDM

2. Product Description

Bitumen 75/25 is an air-blown (oxidized) bitumen produced by controlled oxidation of penetration grade bitumen. The oxidation process increases the softening point and reduces penetration, resulting in a semi-hard industrial grade suitable for roofing membranes, waterproofing systems, pipe coatings, and insulation boards.

This grade offers enhanced thermal stability, strong adhesion, and excellent resistance to deformation at elevated temperatures.

3. Typical Technical Specifications

Property	Test Method	Unit	Typical Value
Softening Point (Ring & Ball)	ASTM D36	°C	70 – 80
Penetration @25°C	ASTM D5	dmm	20 – 30
Flash Point (COC)	ASTM D92	°C	>230
Solubility in CS ₂	ASTM D2042	%	>99
Loss on Heating	ASTM D6	%	<0.5
Specific Gravity @25°C	ASTM D70	-	1.01 – 1.06
Ductility @25°C	ASTM D113	cm	>1.5

Note: Values may vary slightly depending on production batch.



4. Physical Appearance

- Solid at ambient temperature
- Black in color
- Homogeneous structure
- Free from water and visible impurities

5. Applications

Bitumen 75/25 is recommended for:

- Roofing membrane production
- Waterproofing sheets
- Pipe coating and corrosion protection
- Insulation board manufacturing
- Industrial sealants and adhesives
- Asphalt-based protective coatings

6. Performance Characteristics

- High softening point for improved heat resistance
- Low penetration for structural rigidity
- Good adhesion to concrete, metal, and insulation materials
- Stable behavior during melting and processing
- Reduced temperature susceptibility compared to penetration grades

7. Handling & Processing Guidelines

Heating Temperature (Recommended): 150 – 180°C

Maximum Heating Temperature: Do not exceed 200°C

- Use indirect heating systems (thermal oil heaters preferred).
- Avoid prolonged overheating.
- Stir gently during melting to ensure uniform consistency.
- Use proper ventilation during application.



8. Packaging Options

Available in:

- 25 kg carton boxes
- 50 kg polyamide bags
- 180 kg new steel drums
- Meltable bags (upon request)
- Bulk supply (for large projects)

Packaging type can be customized based on buyer requirements.

9. Storage Conditions

- Store in dry, covered warehouse
- Avoid direct sunlight exposure
- Keep away from oxidizing agents
- Maintain good ventilation
- Shelf life: Up to 10 years under proper storage conditions

10. Safety Information

- Avoid direct skin contact with hot material
- Use protective gloves, goggles, and protective clothing
- In case of skin contact with hot bitumen, cool immediately with water
- Refer to MSDS for complete safety instructions

11. Quality Control

Each batch of Bitumen 75/25 is tested prior to dispatch. Certificate of Analysis (COA) is issued for every shipment.

Testing includes:

- Penetration test
- Softening point test
- Flash point verification
- Solubility analysis
- Loss on heating



12. Compliance

Produced in accordance with relevant ASTM standards and international industrial requirements for oxidized bitumen grades.