



Technical Data Sheet (TDS)

Bitumen 75/35 (Oxidized / Blown Grade)

1. Product Description

Bitumen 75/35 is an oxidized (air-blown) bitumen produced by controlled air injection into penetration grade bitumen under high temperature. The oxidation process increases the softening point and reduces penetration, resulting in a harder and more temperature-resistant binder.

This grade is specifically designed for roofing membranes, waterproofing systems, insulation board lamination, pipe coatings, and industrial sealing compounds where thermal stability and dimensional strength are critical.

Bitumen 75/35 is solid at ambient temperature and becomes workable when heated under controlled conditions.

2. Typical Applications

- APP & SBS roofing membrane manufacturing
- Roofing felt saturation
- Foundation waterproofing systems
- Industrial waterproofing compounds
- Pipe coating blends
- Bituminous mastics and sealants
- Insulation board bonding

3. Physical & Chemical Properties

Property	Test Method	Specification Range
Softening Point (°C)	ASTM D36	70 – 80
Penetration @ 25°C (0.1 mm)	ASTM D5	30 – 40
Flash Point (°C)	ASTM D92	Min 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 (cm)	ASTM D113	Report

Values are typical production ranges and may vary slightly depending on production batch.

4. Performance Characteristics

- High resistance to flow at elevated temperatures
- Improved thermal stability compared to penetration grades
- Strong adhesion to reinforcement layers
- Good compatibility with mineral fillers and additives
- Suitable for hot climate roofing systems
- Controlled brittleness for structural stability

5. Heating & Application Guidelines

- Recommended heating temperature: **180°C – 220°C**
- Avoid overheating above 230°C
- Heat gradually with indirect heating systems
- Ensure uniform melting before application
- Maintain proper ventilation during heating

Excessive heating may affect molecular structure and reduce product performance.



6. Packaging Options

- 25 kg Kraft paper bags
- 50 kg Kraft paper bags
- 150 kg steel drums
- 180 kg steel drums
- 500–1000 kg jumbo bags
- Bulk supply (upon request)

Custom packaging available based on project requirements.

7. Storage & Shelf Life

- Store in dry and covered warehouse
- Protect from direct sunlight exposure
- Avoid contact with moisture
- Shelf life: 12 months under proper storage conditions

8. Safety & Handling

- Use heat-resistant gloves and protective equipment
- Avoid direct contact with hot material
- Ensure adequate ventilation during melting
- Refer to MSDS for full safety details

9. Quality Assurance

Each production batch of Bitumen 75/35 is tested according to ASTM standards. Certificate of Analysis (COA) is issued per shipment. Third-party inspection can be arranged upon request.