



## Bitumen 85/35

Industrial Oxidized (Blown) Bitumen

---

### 1. Product Description

**Bitumen 85/35** is an air-blown (oxidized) petroleum bitumen produced by controlled oxidation of selected penetration grade bitumen under high temperature and regulated airflow. The blowing process increases softening point and reduces penetration, resulting in a thermally stable and dimensionally resistant material.

This grade is specifically designed for industrial applications such as roofing membranes, waterproofing systems, pipe coating, expansion joints, mastics, adhesives, and protective compounds where resistance to flow and structural stability are required.

---

### 2. Typical Applications

- Roofing felt and bituminous membranes
  - Industrial waterproofing sheets
  - Hot-applied joint sealants
  - Steel pipe coating systems
  - Adhesives and mastics
  - Battery box compounds
  - Protective coatings
  - Sound insulation compounds
-

### 3. Physical & Chemical Properties

Property	Specification Range	Test Method
Softening Point (°C)	80 – 90	ASTM D36
Penetration @25°C (0.1 mm)	30 – 40	ASTM D5
Flash Point (°C)	Min 250	ASTM D92
Loss on Heating (%)	Max 0.2	ASTM D6
Solubility in CS <sub>2</sub> (%)	Min 99.0	ASTM D2042
Ductility @25°C (cm)	Min 2	ASTM D113
Specific Gravity @25°C	1.01 – 1.06	ASTM D70
Spot Test	Negative	AASHTO T102

*Note: Values are typical and may vary slightly depending on production batch.*

---

### 4. Chemical Characteristics

- Base: Petroleum-derived bitumen
  - Process: Air-blowing (oxidation)
  - Hydrocarbon structure modified for increased hardness
  - Insoluble in water
  - Soluble in aromatic solvents
- 

### 5. Performance Characteristics

- High softening point for improved heat resistance
  - Reduced temperature susceptibility
  - Good adhesion to concrete, metal, and mineral surfaces
  - Stable viscosity during controlled heating
  - Excellent compatibility with fillers and additives
  - Suitable for blending with polymers or natural asphalt (e.g., gilsonite)
-

---

## 6. Heating & Handling Instructions

- Recommended heating temperature: 150 – 180°C
- Avoid overheating above 230°C
- Use indirect heating systems when possible
- Stir gently during melting for uniform consistency
- Do not expose to open flame

Proper temperature control is essential to maintain physical properties and avoid degradation.

---

## 7. Packaging Options

- 25 kg Kraft paper bags
- 50 kg meltable bags
- 150 kg steel drums
- 180 kg steel drums
- Jumbo bags
- Bulk supply upon request

Packaging type depends on customer requirements and export destination.

---

## 8. Storage Conditions

- Store in dry, covered areas
- Protect from direct sunlight and moisture
- Keep away from oxidizing agents
- Maintain safe distance from ignition sources

When stored under recommended conditions, shelf life is unlimited due to stable hydrocarbon structure.

---

## 9. Safety & Handling Precautions

- Avoid skin and eye contact
- Use protective gloves and safety goggles
- Provide adequate ventilation during heating
- Avoid inhalation of fumes



- In case of contact with hot material, cool immediately with water and seek medical attention

Refer to the Material Safety Data Sheet (MSDS) for detailed safety information.

---

## 10. Environmental Information

- Non-hazardous in solid form
  - Avoid release into waterways
  - Dispose of in accordance with local regulations
- 

## 11. Quality Assurance

Each batch of Bitumen 85/35 is tested prior to shipment to ensure compliance with ASTM standards and customer specifications. A Certificate of Analysis (COA) is issued for every shipment confirming conformity with technical parameters.

---

## 12. Compliance Standards

Produced and tested according to relevant international standards including:

- ASTM D5
  - ASTM D36
  - ASTM D92
  - ASTM D6
  - ASTM D2042
  - ASTM D113
- 

## 13. Disclaimer

The information provided in this Technical Data Sheet is based on laboratory testing and production experience. It is offered for guidance only. Customers are responsible for determining the suitability of the product for their specific applications.

---