



TECHNICAL DATA SHEET (TDS) Oxidized Bitumen 90/10

1. Product Identification

Product Name: Oxidized Bitumen 90/10

Product Type: Oxidized Petroleum Bitumen

Alternative Names:

- Blown Bitumen 90/10
- Air Blown Bitumen 90/10
- Oxidized Asphalt 90/10
- Industrial Bitumen

Product Application:

Roofing systems, waterproofing membranes, pipe coating, industrial flooring, adhesives, sealants, insulation, mastic asphalt, and protective coatings.

2. Product Description

Oxidized Bitumen 90/10 is a high-performance industrial bitumen manufactured by controlled air blowing of selected petroleum bitumen. The oxidation process modifies the molecular structure of bitumen, resulting in increased hardness, improved thermal stability, and enhanced resistance to aging.

The product provides excellent adhesion, waterproofing performance, chemical resistance, and durability. Therefore, it is widely used in industrial applications requiring stable performance under demanding environmental conditions.

3. Technical Specifications

Property	Test Method	Typical Value
Softening Point	ASTM D36	85–95 °C
Penetration @25°C, 100g, 5 sec	ASTM D5	8–12 dmm
Specific Gravity @25°C	ASTM D70	1.01–1.06
Solubility in CS ₂	ASTM D2042	≥99.5%
Flash Point	ASTM D92	≥250°C
Loss on Heating	ASTM D6	≤0.2%
Ductility @25°C	ASTM D113	Low
Ash Content	ASTM D2415	≤0.1%
Appearance	Visual Inspection	Black Solid Blocks



Specifications may vary according to customer requirements and international standards.

4. Key Properties

- High softening point
- Excellent thermal resistance
- Strong adhesion characteristics
- Superior waterproofing performance
- Good resistance to oxidation and aging
- High chemical stability
- Excellent durability
- Suitable for hot climate applications
- Long service performance

5. Main Applications

Roofing Applications

Used in roofing felt, waterproof roofing systems, and industrial roof protection due to its heat resistance and durability.

Waterproofing Systems

Suitable for waterproofing membranes, foundations, tunnels, bridges, and underground structures.

Pipe Coating

Used as a protective coating for pipelines to reduce corrosion and moisture penetration.

Industrial Uses

Applied in industrial flooring, electrical insulation, sealants, adhesives, and protective coatings.

Construction Applications

Used in mastic asphalt, expansion joints, and heavy-duty construction materials.



6. Packaging

Available packaging options:

- 25 kg meltable bags
- Kraft paper bags
- Cartons
- Steel drums
- Jumbo bags
- Customized export packaging

Packaging can be adjusted according to customer requirements and shipping conditions.

7. Storage Recommendations

- Store in a dry and covered warehouse.
- Protect from direct sunlight and excessive heat.
- Keep packaging sealed before use.
- Avoid contamination with dust, water, or foreign materials.
- Store away from open flames and ignition sources.

8. Shelf Life

When properly stored under recommended conditions, Oxidized Bitumen 90/10 maintains its quality for an extended period.

9. Quality Control

Each production batch is tested according to approved quality procedures. Testing includes penetration, softening point, solubility, flash point, and appearance inspection.