



 Technical Data Sheet (TDS) – Oxidized Bitumen 115/15

PetroGold Bitumen Refinery

◆ Product Overview

- **Product Name:** Oxidized Bitumen 115/15
 - **Product Code:** OB-11515
 - **Type:** Air-Blown Oxidized Bitumen
 - **Production Method:** Controlled air-blowing of penetration-grade bitumen
 - **HS Code:** 27132000
 - **CAS Number:** 64742-93-4
 - **Country of Origin:** Iran
 - **Manufacturer:** PetroGold Bitumen Refinery – Fully Integrated Facility
 - **Reference Standards:** ASTM D5, D6, D36, D113, D70, D2042, D95 | EN 13304:2009
 - **Packaging Options:** 25kg meltable PE bags, 40kg Kraft bags, 180kg steel drums, bulk in thermal tankers
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◆ Product Description

Oxidized Bitumen 115/15 is a semi-solid, air-blown bitumen derived from refined petroleum. Through a controlled oxidation process, it achieves a high softening point and low penetration, making it suitable for demanding industrial and civil engineering applications. This grade is widely used in waterproofing, pipe coating, adhesives, insulation, and corrosion protection.

◆ Key Applications

- **Construction & Civil Engineering:** Crack sealants, joint fillers, expansion joints
- **Roofing & Waterproofing:** Roofing membranes, felts, roll goods
- **Pipe Coatings:** Protective anti-corrosive coatings for pipelines
- **Paints & Coatings:** Asphalt-based paints for corrosion resistance
- **Industry:** Adhesives, rubber additives, electrical insulation materials



◆ **Advantages**

- High thermal stability
- Excellent aging and oxidation resistance
- Superior water and chemical resistance
- Full solubility in carbon disulfide
- Consistent performance under varying climatic conditions

◆ **Technical Specifications**

Property	Test Method	Unit	Typical Value	Specification Range
Softening Point (Ring & Ball)	ASTM D36	°C	115	110 – 120
Penetration @ 25°C	ASTM D5	dmm	15	10 – 20
Ductility @ 25°C	ASTM D113	cm	5	≥1
Flash Point	ASTM D92	°C	260	≥250
Loss on Heating (5h @ 163°C)	ASTM D6	% wt	0.2	≤0.5
Solubility in CS ₂	ASTM D2042	%	99.5	≥99.0
Specific Gravity @ 25°C	ASTM D70	-	1.05	1.01 – 1.06
Ash Content	ASTM D2415	%	0.02	≤0.1
Water Content	ASTM D95	%	0.05	≤0.2
Spot Test	AASHTO T102 -		Negative	Must be Negative

◆ **Storage & Handling**

- Store in a dry, shaded, and ventilated area
- Keep away from direct sunlight, rain, and ignition sources
- Stack pallets maximum 2 high
- Ideal storage temperature: 10–40°C





- Use proper PPE when handling heated material (gloves, goggles, ventilation)

◆ Shelf Life & Safety

- Shelf Life: **Up to 10 years** in sealed packaging
- For safe handling and environmental information, refer to the **Safety Data Sheet (SDS)**
- Avoid direct contact with hot material – may cause burns

◆ Quality Assurance

All batches of **PetroGold Oxidized Bitumen 115/15** undergo rigorous quality control procedures. International third-party inspection can be arranged at the time of loading. Production conforms to ASTM and EN 13304:2009 standards.

