

Oxidized Bitumen 115/15

Product abbreviation: PN-OB11515 | Product family: Oxidized Bitumen

Appearance	Black to dark brown, oxidized thermoplastic bitumen supplied as a hard and brittle semi-solid/solid material at ambient temperature.
Typical HS Code	2713.20 (petroleum bitumen)
Typical CAS	64742-93-4 (asphalt, oxidized)
Transport status	Not generally regulated as dangerous goods when shipped as a solid at ambient temperature. Hot/molten shipments may be regulated as elevated-temperature material depending on transport mode and jurisdiction.

Product description

PN-OB11515 is a controlled-air-blown oxidized bitumen manufactured from selected petroleum bitumen feedstock for industrial applications that require a high softening point and low penetration. The 115/15 grade combines heat resistance, shape stability, and dependable sealing performance for demanding service conditions.

Typical applications

- Roofing systems, waterproofing membranes, and built-up roofing compounds.
- Pipe coating and corrosion-protection compounds.
- Joint sealants, crack fillers, and industrial mastics.
- Bituminous flooring, damp-proofing, and insulation-related formulations.

Key performance attributes

- High softening point for improved thermal stability and reduced flow.
- Low penetration for a firm body and good sag resistance.
- Good water resistance and durable sealing in suitable formulations.
- Controlled oxidation and consistent grade quality for repeatable processing.

Typical technical properties

Property	Test method	Unit	Specification (typical)	Typical value*
Penetration @25C, 100 g, 5 s	ASTM D5 / EN 1426	0.1 mm	10-20	15
Softening point (Ring & Ball)	ASTM D36 / EN 1427	C	110-120	115
Ductility @25C	ASTM D113	cm	>= 1.5	>= 2.0
Flash point (COC)	ASTM D92	C	>= 250	>= 260
Solubility in trichloroethylene	ASTM D2042	% mass	>= 99.0	>= 99.5
Specific gravity @25C	ASTM D70	-	Report	1.04-1.06
Loss on heating	ASTM D6	% mass	<= 0.2	<= 0.1
Spot test	AASHTO T102	-	Negative	Negative

*Typical values are provided for guidance and may vary by feedstock, production conditions, and batch. Contractual supply is governed by the agreed specification and applicable documentation.

Packaging and delivery

Available in meltable bags, kraft bags, cartons, steel drums, and bulk hot loading, subject to grade, destination, and order quantity. Packaging configuration, net weight, palletization, and shipment documentation can be aligned with project and destination requirements.

Storage, heating, and handling

Store in clean, dry areas protected from water ingress, contamination, and strong oxidizing agents. Heat gradually using indirect heating systems and avoid localized overheating. Typical handling or application temperatures often fall in the 180-230 C range depending on equipment design and end use. Do not overheat or hold at elevated temperature longer than necessary.

Health, safety, and environment

Heated oxidized bitumen can cause severe thermal burns. Use suitable PPE including heat-resistant gloves, face and eye protection, long sleeves, and safety footwear. Provide adequate ventilation where fumes may accumulate. Heated product may release fumes and trace hydrogen sulfide in confined spaces. Prevent contact of hot material with water during loading or application to avoid splashing and violent foaming. Refer to the Safety Data Sheet (SDS) for detailed hazard, first-aid, and emergency guidance.

Regulatory and quality statement

PN-OB11515 is produced under controlled manufacturing and quality procedures and batch tested using recognized methods to confirm conformance with the agreed specification. This TDS is intended as technical guidance and does not replace end-use qualification. For critical applications, compatibility, processing conditions, and performance suitability should be confirmed by the user under actual service conditions.

Document control

Document	TDS - Oxidized Bitumen 115/15
Product abbreviation	PN-OB11515
Revision date	2026-03-15
Validity	Until replaced by a newer revision

Disclaimer: The information in this TDS is based on typical properties and is intended for guidance. Actual values may vary. Petro Naft assumes no liability for use outside the agreed specification or for improper handling.