



TECHNICAL DATA SHEET

BITUMEN 60/70

Product Description

Bitumen is a non-crystalline viscous material, black or dark brown in colour, possessing adhesive and waterproofing qualities. It consists essentially of hydrocarbons and typically comprises at least 80% carbon and 15% hydrogen, the remainder being oxygen, nitrogen and traces of various metals. Penetration Grade Bitumen is manufactured from the fractional distillation of crude oil and is specified by penetration range only. Its thermoplastic property causes the material to soften at high temperatures and harden at lower temperatures; this temperature/viscosity relationship governs adhesion, rheology, durability and application temperatures. EO Trading Co supplies bitumen fully compliant with ASTM and AASHTO standards.

Application and Benefits

Bitumen 60/70 is the standard paving-grade bitumen for road construction and the production of asphalt pavements. It is mainly used in the manufacture of hot-mix asphalt for base and wearing courses, and is also suitable for surface dressing and industrial applications.

Specifications

Test Description	Unit	Test Method	Specification	Max / Min
Penetration @ 25 °C, 100 g, 5 s	1/10 mm	ASTM D5	60 – 70	—
Softening Point (Ring & Ball)	°C	ASTM D36	48 – 56	—
Ductility @ 25 °C	cm	ASTM D113	100	Min.
Flash Point (Cleveland Open Cup)	°C	ASTM D92	232	Min.
Solubility in Trichloroethylene	wt %	ASTM D2042	99.0	Min.
Loss on Heating @ 163 °C	wt %	ASTM D6	0.20	Max.
Penetration @ 25 °C (after LOH)	%	ASTM D5	75	Min.
Ductility @ 25 °C (after LOH)	cm	ASTM D113	75	Min.
Relative Density @ 25/25 °C	—	ASTM D70	1.00 – 1.06	—

Application Temperature

Recommended handling temperatures for Bitumen 60/70:

Storage temperature	120 – 150 °C
Mixing temperature	135 – 155 °C
Compaction temperature	125 – 145 °C

Packing and Storage

Supplied in new steel drums (approx. 180 kg net) and in bulk by insulated tanker. Packages should be stored under cover; keep containers closed and clearly labelled. The storage area should comply with NFPA 30.

Health, Safety and Environment

Health, safety and environmental information for this product is provided in the Safety Data Sheet, which details potential hazards, precautions and first-aid measures. EO Trading Co will not accept liability if the product is used other than in the manner, with the precautions or for the purposes specified.

- Keep away from open fire, sparks and other ignition sources. Wear protective clothing, gloves and goggles; the product is handled hot.
- Skin: avoid repeated or prolonged contact. Remove with a hand cleaner that removes oil or grease, then wash with soap and water.
- Eyes: contact may cause irritation. Flush immediately with clean water and seek medical advice if irritation persists.
- Inhalation: fumes may cause dizziness. Move to fresh air; if breathing difficulty persists, seek medical attention.