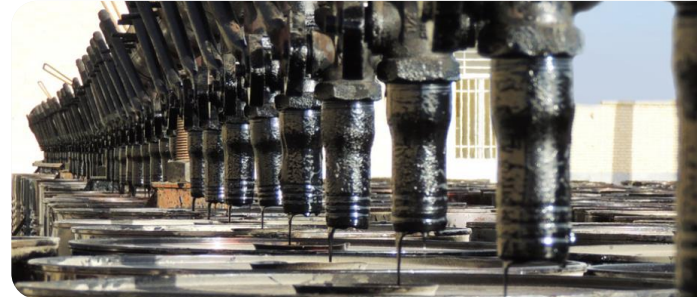




SPECIFICATION OF BITUMEN 50/70



Introduction

BS group Bitumen Grade 50/70 is a standard penetration grade base on European Standard DIN EN 12591:99. Bitumen 50/70 is usually used as a paving Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt in moderate climate.

Typical properties of BS group Bitumen 50/70

BS group guarantees that the Bitumen Grade 50/70 it supplies under its offers is produced in compliance to and is in conformity to European Standard DIN EN 12591:99 and meets the following specification requirements.

Description	Unit	Limit	Test Method
Density@25°C	Kg/m ³	1010-1060	ASTM D70 or D3289
Penetration@25°C	mm/10	50-70	EN 1426
Softening Point	°C	46-54	EN 1427
Ductility@25°C	cm	100 Min	ASTM D113
Flash Point (Cleveland Open)	°C	230 Min	EN ISO 2592
Solubility in Trichloroethylene or Xylene	wt%	99.0 Min	EN 12592 or ASTM D2042
Kinematic Viscosity@135°C	mm ² /s	295 Min	EN 12595
Resistance to hardening at 163°C:			
Change in mass (m/m)	%	0.5 Max	EN 12607-1
Retained Penetration 25°C, 100g, 5s (% of original)	%	50 Min	EN 1426
Increase in softening point (R&B)	°C	11 Max	EN 1427

Applications

This kind of bitumen is suitable to be used for road construction projects in moderate climate. Also it can be used for producing some kind of asphalt primer and Waterproofing products. 50/70 Bitumen is applicable for the production of hot mix asphalt for bases and pavements and for road construction and also for making some bitumen emulsion, cutback bitumen and modified bitumen grades as well.

Hazard Identification

NOT classified as dangerous in accordance with Directive 67/548/EEC or EC 1272/2008.

The main hazards presented by Asphalt relate to the temperature of the material. The following hazards may apply:

- Hot materials may burn the skin.
- Fumes from Asphalt are unlikely to be hazardous when laid in open air situations, but there may be a risk to health by continuous inhalation of high vapor concentrations which might arise in poorly ventilated, confined or semi-confined spaces.
- Asphalt is not a dusty material, but respirable dust may be released by cutting, drilling or planning hardened asphalt. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard.

Dusts containing Respirable Crystalline Silica* (quartz) present a greater hazard. Long-term exposure to respirable dust can lead to respiratory system damage and disease. Respirable crystalline silica* has been associated with the lung disease silicosis.

The quartz content of the product will vary, and is related to the type of aggregate used in the production of the asphalt. Advice on the quartz content and other chemical information is available from the supplying unit.

Fire Fighting Measures

Suitable Extinguishing Media: Dry powder, foam.

Unsuitable Extinguishing Media: Do not use water. CO₂ is also not suitable.

Special Exposure Hazards in Fire: Hydrocarbon fumes may be released, along with other hazardous combustion products including smoke.

Special Protective Equipment for Fire Fighters: Proper protective equipment including suitable respirators or breathing apparatus must be worn.

Handling and Storage

Handling:

Skin contact with the product should be avoided. Inhalation of fumes should be avoided as far as is reasonably practicable.

If the formation of vapors is a risk, then additional ventilation should be provided. Handle away from sources of ignition and heat. Do not smoke, eat or drink during use.

Storage:

No special requirements. Asphalt is normally used upon receipt.

Refer to the relevant Technical Data Sheet for the specific product.

Cleaning

Tools: Clean with kerosene and gasoline.

Hands: Use a hand cleanser or kerosene followed by soap and water.

Availability

BS group Bitumen Penetration Grade 50/70 is available in:

- Bulk
- New Steel Drums (185 Kg) and (150 Kg)
- Polybag