

# SPECIFICATION OF **OXIDIZED BITUMEN 115/15**



## Introduction

BS group Oxidised Bitumen 115/15 is based on petroleum bitumen which is made by blowing bitumen 60/70 by hot air. The most oxidized bitumen usable grade is bitumen 115/15. This type of bitumen is the semi-solid oxidized grade of petroleum bitumen categorized in polycyclic aromatic hydrocarbons is normally used for different purposes in the construction industries. BS group oxidized bitumen 115/15 which is produced in compliance and conformity with ASTM and EN standard can be supplied in any grade and are designated by two numbers to indicate the softening point and penetration ranges.

## Typical properties of oxidized bitumen R 115/15

BS group oxidised bitumen 115/15 is made according to BS EN 13304:2009 standard.

Properties	Test Method	Unit	Specification
Specific gravity at 25/25 C	ASTM D70 EN 15326	(Kg/m <sup>3</sup> )	1.05 approx.
Penetration at 25°C	ASTM D5 EN 1426	mm/10	10/20
Softening point °c	ASTM D36 EN 1427	°C	110/120
Loss on heating (wt) %	ASTM D6 EN 13303	Wt. %	0.2 max
Flashpoint c	ASTM D92 EN ISO 2592	°C	250 min
Solubility in CS <sub>2</sub> (wt) %	ASTM D4 EN 12592	Wt. %	99.5 max
Stop test	A.A.S.H.O.T 102	-	negative

## Applications

This kind of bitumen is suitable to be used in the chemical, raw material for bitumen coat, lacquers, varnishes, paper-pulp-board, textile processing, pavement, crack seal and repairmen, civil works, bitumen coat for piping, roofing, construction industries; sealing and insulating buildings, adhesive, construction materials additive, road construction, dust-binding, insulating and impregnating agent,

isolation bitumen membrane sheet, make rubber and plastic products. typical uses for bitumen 115/15 include roofing, pipe coating, hydraulic applications, 115/15 is mainly using in paint manufacturing and coating in hot area.

### **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:**

SAFETY HANDLING PRECAUTIONS (when hot)

- Wear suitable protective clothing (heat resistant gauntlet gloves, overalls, protective footwear, face visor)
- DO NOT allow water to contact hot material
- DO NOT exceed the maximum safe heating temperature

If molten material contacts skin:

- DO NOT attempt to remove
- Immerse the affected area in cold running water for at least 10 minutes

- Seek medical advice without delay

This product is hazardous for transportation when carried at temperatures above 100°C.

### **Storage**

Oxidised Bitumen should be kept under cover and away from direct sunlight.

### **Cleaning**

**Tools:** Clean with kerosene and gasoline.

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

### **Availability**

BS group Oxidized Bitumen 115/15 is available in:

- New Steel Drums (185 or 200 Kg)
- Melt-able and craft bag
- Craft box