



Pilipinas Shell Petroleum Corporation

# BITUMEN R100/10

## OXIDIZED BITUMEN

### 1. Description

Shell Bitumen R-Grades are re-blown or oxidised bitumens which are produced by passing air through soft bitumen under controlled temperature conditions. This process alters the characteristics of the bitumen to give more 'rubbery' properties than for penetration and hard grades. Grades are specified by their mid-softening point and mid-penetration value, prefaced by the letter R.

### 2. Uses

2.1 Oxidised grades are suitable for sealing saw cuts and joints where there is expected to be the minimum amount of movement in the joint. Their wide temperature range prevents the bleeding of the product in high temperature situations.

2.2 Oxidised bitumens are also used in industrial applications like roofing, flooring, mastics, pipe coatings, electrical applications, etc.

#### Shell Bitumen R 100/10 Typical Properties

		R 100/10
Penetration @ 25 °C	ASTM D5	6 to 14
Softening Point, °C	ASTM D2398	92 to 105
Flash Point, COC, °C	ASTM D92	276 min
Solubility in trichloroethylene, %	ASTM D2042	99.5 min
Ductility, cm.	ASTM D113	0.5 min
Flow, mm		3 max.

### 3. Safe Handling and Storage:

#### 3.1 Handling:

- Use Personal Protective Equipment (PPE's) when handling (i.e. gloves, eye protectors, etc.)
- Maintain safe heating temperatures when using this product
- Avoid contact with skin, eyes and clothing.
- Avoid breathing vapour, spray or mists when applying.

#### 3.2 Storage:

##### 3.2.1 Bags

Keep bags in a cool, well-ventilated place.

##### 3.2.2 Bulk Storage

- Tanks must be specifically designed for use with this product.
- Tanks should be provided with a heating facility.
- Ensure heating coils are always well covered with product (min. 15 cm).
- Prevent ingress of water.
- Use lowest practicable storage temperatures and avoid through-draughts of air
- to minimise risk of generating a flammable condition in the tank space.

### 4. Packaging

Shell Bitumen R 100/10 is available in 40 kg. drums and 30 kg. bags.