



FREE ZONE COMPANY REGISTERED AND LICENSSED UNDER DMCCA RULES AND REGULATIONS  
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## PENETRATION GRADED BITUMEN BITUMEN 70/100 Technical Data Sheet

### 1. Description:

Penetration Graded Bitumen 70/100 is high quality asphalt, derived from crude petroleum refining. It is dark in color and possesses waterproofing and adhesive properties. It is substantially non-volatile and softens gradually when heated.

### 2. Uses:

This grade is used as binders of mineral aggregates in asphalt concrete and hot laid plant mix for highways, airports, parking areas, driveways and curbs.

### 3. Specification:

| N0 | Properties                       | Method           | Spec |      | Unit     |
|----|----------------------------------|------------------|------|------|----------|
|    |                                  |                  | Min  | Max  |          |
| 1  | Penetration @ 25°C               | ASTM D 5/97      | 70   | 100  | d/mm     |
| 2  | Softening Point                  | ASTM D 36/95     | 43   | 51   | °C       |
| 3  | Loss on Heating                  | ASTM D 1754/97   | ..   | 0.2  | %        |
| 4  | Flash Point                      | ASTM D-92/97     | 232  | ..   | °C       |
| 5  | Ductility @ 25°C                 | ASTM D 113       | 100  | ..   | mm       |
| 6  | Solubility in trichloro ethylene | ASTM D 2042      | 99.5 | ..   | %        |
| 7  | Specific Gravity @ 25°C          | ASTM D-70        | 1.01 | 1.06 |          |
| 8  | Spot test                        | *A.A.S.H.O.T.102 |      |      | Negative |

\*AMERICAN Association of State Highway Officials

### 4. Safe Handling and Storage:

#### 4.1 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 vapor, spray or mists when applying.

#### 4.2 Storage:

##### 4.2.1 Drums

Keep drums in a cool, well-ventilated place.

### 5. Packaging:

Penetration graded Bitumen 70/100 is available in 0.6 mm thickness, 180 kg net weight drums, 95 cm height and 45 cm diameter (+/- 3 kg operational tolerance)