

# Bitumen 60/70

## Technical Data Sheet



### DESCRIPTION:

Bitumen Penetration Grade 60/70 is a standard penetration grade Bitumen usually used as a Paving Grade 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 for bases and wearing courses. Penetration Grade Bitumen supplied by **Bitumen Export Group** is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The Bitumen supplied by **Bitumen Export Group** is produced from vacuum bottom (VB) feedstock. Penetration Grade bitumens are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumens have a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

### CHARACTERISTICS AND SPECIFICATIONS:

**Bitumen Export Group** guarantees that the Bitumen Grade 60/70 is produced in compliance to and is in conformity to AASHTO M20-70 and ASTM D946/D946M and meets the following specification requirements.

| TECHNICAL DATA                      |                  |      |          |      |
|-------------------------------------|------------------|------|----------|------|
| Bitumen Penetration Characteristics | Test Method      | Unit | Min.     | Max. |
| Density at 25 ° C                   | ASTM D70         | Kg   | 1.01     | 1.06 |
| Penetration at 25 ° C               | ASTM D5          | mm   | 60       | 70   |
| Softening Point                     | ASTM D36         | C°   | 49       | 56   |
| Ductility at 25 ° C                 | ASTM D113        | cms  | 100      | -    |
| Loss on heating                     | ASTM D6          | %wt  | -        | 0.2  |
| Drop in penetration after heating   | ASTM D5 & D6     | %    | -        | 20   |
| Flash point                         | ASTM D92         | C°   | 250      | -    |
| Solubility in CS2                   | ASTM D4          | %    | 99.5     | -    |
| Spot test                           | A.A.S.H.T.O T102 |      | Negative |      |