

TECHNICAL DATA SHEET

VISCOSITY GRADE BITUMEN VG- 40

Description

To grade the bitumen based on viscosity BIS revised IS-73-1992 specifications (Viscosity at 60oC) and as such there are four grades VG-10, VG-20, VG-30 & VG-40. A few qualification tests like specific gravity, water content, ductility, loss on heating & Farass breaking point were removed from IS:73-1992 as these tests do not have any relationship with the performance of the product.

Technical Data

PROPERTY	VG 40
ABSOLUTE VISCOSITY 60° C POISE MIN	3200
KINEYATIC VISCOSITY 135°c CST MIN	400
FLASH POINT MIN°C	220
SOFTENING POINT MIN °C	50
PENETRATION 0.1 MIN. 25 °C	40-60
DUCTILITY ON MIN .25°C	25
VICOSITY RATIO 60°C MAX	4
SOLURILITY IN TCE MIN	99

Application

Viscosity Grade Bitumen is widely used in spraying applications such as surface-dressing and paving in very cold climate. It is also used to manufacture Bitumen emulsion and Modified Bitumen products.

Packing

Steel drums, Flexi Tanks

Health & Safety

- **Wear suitable personal protective equipment (PPE) at all times.** Full skin protection is required to avoid accidental burns when transferring or handling hot bitumen.
- **Always prevent contact between water and hot bitumen** by checking the contents of the previous load before loading bituminous products into tankers and by following procedures to avoid violent boil-over of tanks.
- **Avoid exposure to fumes** by standing back on the gantry or upwind until the vapours have dispersed.
- **Minimise bitumen fume** by heating bitumen and asphalt products to the recommended temperatures.
- **Minimise the use of diesel** when cleaning equipment as this contributes to the bitumen fume. Cutbacks are sometimes used at a temperature above their flashpoint, so care must be taken regarding the product's flammability. Ensure personnel are well trained in the correct handling procedures

Cleaning

Tools : Clean with Kerosene

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