

## STANDARD SPECIFICATION OF PENETRATION BITUMEN GRADE 10/20

This type of bitumen is created during the process of oxidation in a vacuum bottom (The bitumen production feedstock that is derived from a distillation tower residue in vacuum oil refineries) at bitumen production units. The penetration point (Kind of test to indicate the hardness of bitumen becomes **10/20**).

Property/Unit	Specification	Method
Specific gravity @ 25 °C	1.01/1.06	ASTM D70
Penetration, 25 °C, (mm/10)	10/20	ASTM D5
Softening point (°C)	58 – 66	ASTM D36
Loss on heating (wt %)	0.2 max	ASTM D6
Drop-in penetration after heating (%)	20 max	ASTM D6 & ASTM D5
Flash point (°C)	250 min	ASTM D92
Solubility in CS <sub>2</sub> (wt %)	>99.5 min	ASTM D4
Spot test	Negative	*A.A.S.H.O.T 102
Ductility @ 25 °C (cm)	100 min	ASTM D113

### USAGE

Bitumen penetration grade **10/20** is standard penetration grade bitumen. It is used as 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.

