

Technical Data Sheet

Bitumen 40/50

Penetration grade bitumen 40/50 is pure petroleum grade bitumen, manufactured from vacuum bottom by passing hot air. The bitumen supplied by RAHA Oil is produced from remain of crude oil after cracking and removing hydrocarbon. Penetration grade bitumen 40/50 has penetration between 40~50 desi-millimeter and the softening point between 52 ~ 60C. The penetration grade bitumen 40/50 has a thermoplastic property which is like as synthetic resin material which gets softer with heating and hardens when cooled. This grade of bitumen 40/50 has very strong viscosity compare to other grades.

Applications:

Bitumen 40/50 is suitable for road construction and for the asphalt pavements with superior properties. This type of bitumen used in the manufacture of hot mix asphalt for bases and wearing courses and the main usage of this product is used in the road in tropical regions. the bitumen is provided during the presses of oxidation of vacuum bottom in bitumen production units. Due to its high air blowing and penetration, it is used in tropical areas with the Warm weather. It is not softened at high temperatures and does not fail its qualities.

Bitumen 40/50	Test method	Unit	Specification
Specific gravity @ 25°C	ASTM D70	Kg/cm ³	1.01/1.06
Penetration @ 25°C	ASTM D5	mm/10	40/50
Softening point °C	ASTM D36	°C	52/60
Ductility @25 °C	ASTM D113	cm	100 min
Loss on heating(wt) %	ASTM D6	wt %	0.2 max
Drop in penetration after heating %	ASTM D5-D6	%	20 max
Flash point °C	ASTM D92	°C	250 min
Solubility is CS ₂ (wt) %	ASTM D4	wt %	99.5 min
Spot test	A.A.S.H.O.T102		Negative