



Penetration Grade

Description and Applications: Penetration Grade Bitumen is mainly used in road surfacing and some industrial applications. We supply penetration Grade Bitumen which is petroleum based and manufactured from Vacuum Bottom (VB) feedstock. Penetration Grade Bitumen is specified by the penetration and softening point test. Bitumen with lower penetration grade is used in the regions with warm climate while higher penetration grade is used in colder weather.

Characteristics and Specifications: Based on ASTM D946 Bitumen

Test	Method	30-40	40-50	60-70	85-100	200-300
Specific gravity @25/25C	ASTM D70	1/01-1/06	1/01-1/06	1/01-1/06	1/01-1/05	0.99-1/04
Penetration ,25°c, 100g 5s,min	ASTM D5	30-40	40-50	60-70	85-100	200-300
Softening point °C	ASTM D-36	55-63	52-60	49-56	45-52	32min
Ductility ,25°c,5cm/min/cm	ASTM D-113	100 min	100 min	100 min	100 min	100min
Flash Point °C	ASTM-D92	250 min	250 min	250 min	230 min	177min
Solubility in trichloroethylene (min %)	ASTM-D2042	99.5 min	99.5 min	99.5 min	99.5 min	99.0min
Spot test	A.A.S.H.T.T102	Negative	Negative	Negative	Negative	Negative
Drop in penetration after heating%	ASTM-D5&D6	20 max	20 max	20 max	20 max	37min
Loss on heating(%wt)	ASTM-D6	0.2 max	0.2 max	0.2 max	0.5 max	1max

Health and Safety: Detailed health and safety information for this product is provided in the Material Safety Data Sheet (MSDS), available upon request.

