



BITUMEN

Penetration Grade

40/50 60/70 85/100

Description

Penetration grade Bitumen is classified by the depth to which a standard needle will penetrate under specified test conditions. This “pen” test classification is used to indicate the hardness of bitumen, lower penetration indicating harder bitumen.

Application

Commonly used to manufacture Asphalt Mixes used in road construction and surfacing. Additional processing of this type of Bitumen yields various grades of Bitumen products such as Cut-back Bitumen, Bitumen Emulsions and Modified Bitumen.

Parameter	Unit	min/max	ASTM	40 / 50	60 / 70	85 / 100
Penetration grade @ 25C°	mm/10		ASTM D-5	40-50	60-70	85-100
Ductility @ 25C°	cm	min	ASTM D-113	100	100	100
Softening point	C°		ASTM D-36	52 - 60	49 - 56	45 - 52
Flash point	C°	min	ASTM D-92	232	232	232
Solubility in Trichloroethylene	%wt	min	ASTM D-2042	99	99	99
Weight loss on heating	%wt	max	ASTM D-6	0.2	0.2	0.5
Penetration loss by heating	%	max	ASTM D-5	20	20	20
Density	kg/m ³		ASTM D-70	1.01 - 1.06	1.01 - 1.06	1.0 - 1.05
Spot test			AASHTO T-102	negative	negative	negative
Viscosity @ 60C°	P		ASTM D-2171	4000 \pm 800	2000 \pm 400	1000 \pm 200
Viscosity @ 135C°	cSt	min	ASTM D-2170	400	300	250
Retained penetration after TFOT	%	min	ASTM D-5	58	54	50
Ductility @ 25C° after TFOT	cm		ASTM D-113	50	50	75
Viscosity @ 60C° after TFOT	P	max	ASTM D-2171	20000	10000	5000

Packing

New steel drums. Dimensions: Height: 98cm, Diameter: 50cm, Thickness: 0.6mm

Quality Assurance

Our BITUMEN are of the highest quality and are manufactured by leading refineries in the Middle East to a high quality system complying with and approved to ISO 29001:2003, ISO 14001:2004 and OHSAS 18001:1999, and are fully compliant with ASTM International Standards and Test Methods.

SPECIFICATION