

STANDARD BITUMEN

PENETRATION GRADE: PEN60/70

PROPERTY / UNIT	UNIT	SPECIFICATION	TEST METHOD
Penetration at 25°C (100g/5s)	0.1mm	60-70	ASTM D5
Ductility at 25°C	cm	100	ASTM D113
Softening Point	°C	48-56	ASTM D36
Loss on Heating, WT%	%	0.2	ASTM D1754
Drop in Penetration after Heating	%	20	ASTM D5
Flash Point	°C	250	ASTM D92
Solubility in CS ₂ , WT%	%	99.5	ASTM D2042
Rel. Density/Spec. Gravity at 25°C	g/cm ³	1.00-1.05	ASTM D70
Thin Film Over Test 163°C, 5 Hours	Mm	3.2	ASTM D1754
Ductility of Residue, 5cm at 25°C	cm	50	ASTM D113
Organic Matter Insoluble in CS ₂ -PCT WT	%	0.2	ASTM D4
Spot Test	-	NEGATIVE	AASHTO 102
<p>Penetration Grade Bitumen: used in road construction, surfacing and some industrial applications. Additional processing of this type of Bitumen yields various grades of Bitumen products. The Penetration Test determines the hardness (viscosity) of Bitumen by measuring the depth (in tenths of a mm). For this a loaded needle will vertically penetrate a sample over a period of 5 seconds – the sample of Bitumen being maintained at a temperature of 25°C. Hence the softer the bitumen, the greater its number of penetration units. This Penetration Bitumen Grade 60/70 is commonly used to manufacture Asphalt Mixes, Cutback Bitumen, Bitumen Emulsions and Modified Bitumen. It is derived from specially selected crude oils through a controlled refining process.</p> <p>Quality: All Bitumen supplied by Arözco is of the highest quality and fully compliant with ASTM and AASHTO. Quality Assessments are carried out at various stages of refining including drumming stage. Additionally, an independent Geochem certificate of its quality is also done prior to shipping.</p> <p>Packaging: 0.65-0.70mm thick new (or even reconditioned) steel drums shipped in 20 feet containers.</p> <p>Storage and Handling Recommendations: Store in unopened containers. Storage temperature limits 1°C - 50°C. For normal operations, such as blending and transferring liquid bitumen, temperatures of 10°C - 40°C above the minimum pumping temperature are recommended.</p>			
Recommended Application Temperatures		Compacting	120°C - 140°C
		Mixing	130°C - 150°C
		Storing	120°C - 150°C