

# BITUMEN 50-70

(Penetration Grade)

## TYPICAL PROPERTIES

PROPERTY	UNIT	50-70	TEST METHODS
Penetration @25°C, 100gm, 5sec	0.1MM	50-70	EN 1426
Softening Point, Ring & Ball	°C	46-54	EN 1427
Penetration Index	-	-1.5 to +0.7	EN12591-Annex A
<b>Resistance to Hardening @163°C</b>			
- Change in mass, Max	%Wt	0.5	
- Retained Penetration, Min	0.1MM	50	EN 12607-1
- Softening point after hardening, Min	°C	48	
Flash Point Cleveland open cup, Min	°C	240	EN ISO 2592
Solubility in CS <sub>2</sub> , Min	%Wt	99.0	EN 12592
Kinematic Viscosity @135°C, Min	mm <sup>2</sup> /s	295	EN 12595
Paraffin wax content, Max	%Wt	4.5	EN12606-2

**Penetration Grade Bitumen 50/70** is produced from the vacuum distillation of crude oil and is classified according to its penetration range. Bitumen 50/70 is a thermoplastic material which softens gradually as it is heated and hardens as it is cooled. This unique temperature/viscosity relationship is important when determining its performance parameters and application temperatures. Unlike modified binders, penetration grade bitumen acts as a Newtonian fluid at high in-service temperatures, which allows one to establish a temperature/viscosity relationship. 50/70 Penetration Grade Bitumen is used in the manufacture of hot mix asphalt for base courses and wearing courses. Bitumen 50/70 fulfils the requirements for paving grade bitumen in accordance with EN 12591.

**Packaging:** New steel drums, reconditioned steel drums or eco-friendly poly bags. Weatherproof packaging.

**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.

### Recommended Application Temperatures:

Asphalt mixing temperature : 150°C - 160°C.  
Asphalt compaction temperature : 135°C - 145°C.

For further information, please contact:

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