

Bitumen

Specification Sheet



Bitumen 60/70



BITUMEN PENETRATION GRADE 60/70

Bitumen Penetration Grade 60/70 is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the spraying and chip applications. Penetration Grade Bitumen supplied by Keyser Trading Division is petroleum grade bitumen, manufactured from fractional I vacuum distillation of crude oil. The Bitumen supplied by Keyser Trading Division is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumens are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumens have a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

CHARACTERISTICS AND SPECIFICATIONS

Keyser Trading Division guarantees that the **Bitumen Grade 60/70** it supplies under its offers is produced in compliance to and is in conformity to **AASHTO M20-70** and **ASTM D946/D946M** and meets the following specification requirements.

SPECIFICATIONS | AASHTO M20-70 & ASTM D946/946M NORMS

CHARACTERISTICS	TEST METHOD	UNIT	MIN.	MAX.
Specific Gravity at 25 °C	ASTM D70	°C	1.01	1.06
Penetration at 25 °C, 100g, 5s	ASTM D5	mm	60	70
Softening Point	ASTM D36	°C	49	56
Ductility at 25 °C	ASTM D113	Cm	100	-
Loss on heating	ASTM D6	%		0.2
Drop in penetration after heating	ASTM D5	%		20
Flash point	ASTM D92	°C	250	
Solubility in Trichloroethylene	ASTM D2042	%	99	
Performance after RTFOT Method Test to ASTM D1754:				
• Change in mass (m/m)	ASTM D2872	%	-	1%
• Retained Penetration °25C, 100g, 5s (% of original)	ASTM D5	%	52	



Keyser Technologies Pte Ltd
No. 74 Tuas Avenue 11
Singapore 639093

Email: sales@keyser.com.sg
Phone: **+65 6262 0718**
Fax: **+65 6262 0836**

Bitumen 80/100



BITUMEN PENETRATION GRADE 80/100

Bitumen Penetration Grade 80/100 is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses. Penetration Grade Bitumen supplied by Keyser Trading Division is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The Bitumen supplied by Keyser Trading Division is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumens are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumens have a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

CHARACTERISTICS AND SPECIFICATIONS

Keyser Trading Division guarantees that the **Bitumen Grade 80/100** it supplies under its offers is produced in compliance to and is in conformity to **AASHTO M20-70** and **ASTM D946/D946M** and meets the following specification requirements.

SPECIFICATIONS | AASTHO M20-70 & ASTM D946/946M NORMS

CHARACTERISTICS	TEST METHOD	UNIT	MIN.	MAX.
Specific Gravity at 25 °C	ASTM D70	°C	1.01	1.05
Penetration at 25 °C, 100g, 5s	ASTM D5	mm	80	100
Softening Point	ASTM D36	°C	42	52
Ductility at 25 °C	ASTM D113	Cm	100	-
Loss on heating	ASTM D6	%		0.5
Flash point	ASTM D92	°C	225	
Solubility in Trichloroethylene	ASTM D2042	%	99	
Performance after RTFOT Method Test to ASTM D1754:				
• Change in mass (m/m)	ASTM D2872	%	-	0.5%
• Retained Penetration °25C, 100g, 5s (% of original)	ASTM D5	%	50	-
• Increase in softening point	ASTM D36	°C	-	≤8
• Softening point after hardening	ASTM D36	°C	45	-



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Bitumen 100/150



BITUMEN PENETRATION GRADE 100/150

Bitumen Penetration Grade 100/150 is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses. Penetration Grade Bitumen supplied by Keyser Trading Division is petroleum grade bitumen, manufactured from fractional / vacuum distillation of crude oil. The Bitumen supplied by Keyser Trading Division is produced from vacuum residue (short residue) feedstock. Penetration Grade bitumens are specified by the penetration and softening point test. Designation is by penetration range only. The penetration grade bitumens have a thermoplastic property which causes the material to soften at high temperatures and to harden at lower temperatures. This unique temperature/viscosity relationship is important when determining the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen.

CHARACTERISTICS AND SPECIFICATIONS

Keyser Trading Division guarantees that the **Bitumen Grade 100/150** it supplies under its offers is produced in compliance and is in conformity to **European Standard DIN EN 12591:99** and meets the following specification requirements.

SPECIFICATIONS | EUROPEAN NORM EN 12591

CHARACTERISTICS	TEST METHOD	UNIT	MIN.	MAX.
Penetration at 25 °C, 100g, 5s	EN 1426	mm	100	150
Softening Point (Ring & Ball)	EN 1427	°C	39	47
Kinematic Viscosity @ 135°C	EN 12595	mm ² /s	175	-
Solubility in Trichloroethylene	EN 12592	%	99	
Flashpoint (Cleveland Open)	EN ISO 2592	°C	230	
Resistance to hardening at °163C:				
• Change in mass (m/m)	EN 12607-1	%	-	0.8%
• Retained Penetration °25C, 100g, 5s (% of original)	EN 1426	%	≥43	-
• Increase in softening point (R&B)	EN 1427	°C	-	≤10



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