

TECHNICAL DATA SHEET

PENETRATION GRADE BITUMEN 160/220

DESCRIPTION

Bitumen 160-220 is a Penetration Grade of Bitumen according to the standard: BS EN 12591. Bitumen 160-220 is a soft and flexible grade primarily used in colder climates, low-traffic roads, and surface dressing applications. With its high flexibility and low softening point, it is well-suited for regions that experience significant temperature fluctuations, allowing it to maintain performance without cracking.

This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses. Penetration Grade Bitumen is produced from Vacuum Residue (VR), which undergoes air blowing in a Oxidation Blowing Unit. This fully automated, continuous process ensures consistent and homogeneous product quality, meeting stringent specifications and international standards.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Penetration @ 25°C	160-220	mm/10	EN 1426
Softening Point (R & B)	35-43	°C	EN 1427
Kinematic Viscosity @ 135°C	135 Min	mm ² /s	EN 12595
Solubility in Trichloroethylene	99 Min	%	EN 12592
Flash point	220 Min	°C	EN ISO 2592
Dynamic Viscosity @ 60°C	30 Min	Pa.s	EN 12596
Resistance to Hardening at 163°			
Change of Mass	1.0 Max	%	EN 12607-1
Retained Penetration	37 Min	%	EN 1426
Increase in softening point	11 Max	°C	EN 1427

RECOMMENDED WORKING TEMPERATURES

-  Storage temperature (°C): < 150
-  Mixing temperature (°C): 130-150
-  Compaction temperature (°C): 120-150

GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen Penetration Grade 160-220. To ensure this, an independent international inspection agency is arranged to verify both the quality and quantity of the Bitumen during vessel loading. Additionally, production is closely monitored by the Quality Control (QC) team through batch testing prior to shipment.

APPLICATIONS

Bitumen 160-220 is ideal for use in cold climate regions and low-traffic road construction, where flexibility and Bendability are crucial. Its softer nature and higher penetration value makes it well-suited for projects that require Bitumen capable of withstanding significant temperature fluctuations without cracking.

PACKAGING

Our bitumen is available in a range of packaging options, including:

Jumbo bags	Flexitanks	Steel drums
 1 MT	 20 MT	 150kg 180kg 220kg

All packaging is weatherproof and engineered for safe, efficient handling and transportation in diverse operating environments.



Complies with
BS EN 12591:2019