

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 70-10

IQTB-800-QL-TDS-0021

DESCRIPTION

Performance Grade (PG) Bitumen PG 70-10 is a type of asphalt binder categorized within the Superpave Performance Grading (PG) system. This classification system ensures that Bitumen can withstand specific temperature conditions, making it suitable for various pavement applications.

This grade is manufactured in strict compliance with AASHTO M320 or ASTM D6373 specifications, ensuring consistency and reliability for engineers and contractors. It provides strong adhesion to aggregates, excellent workability during mixing and compaction, and superior resistance to bleeding and softening even under extreme heat.

SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 70	°C	--
Minimum pavement design temperature	> -10	°C	
Original Binder			
Flash point °C	230 Min	°C	AASHTO T48 / ASTMD92
Viscosity @135°C	3.0 Max	Pa.s	AASHTO T316 / ASTMD4402
Dynamic Shear, G*/sin & at 70°C at 10 rad/s	1.0 Min	kPa	AASHTO T315 / ASTMD7175
Residual Binder from Rolling Thin-Film Test (AASHTO T240 / ASTM D2872)			
Mass change	1.0 Max	%Wt	AASHTO T240 / ASTMD2872
Dynamic Shear, G*/sin & at 70°C at 10 rad/s	2.2 Min	kPa	AASHTO T315 / ASTMD7175
Pressure Aging Vessel Residue (AASHTO R28 / ASTM D6521)			
PAV Temperature	100 (110)	°C	AASHTO R28 / ASTMD6521
Dynamic Shear, G*.sin & at 34°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM7175
Creep Stiffness at 0°C			
S value	300 Max	MPa	AASHTO T313 / ASTMD6648
M value (slope)	0.300 Min		AASHTO T313 / ASTMD6648
Direct Tension at, 0°C			
Failure strain, Test Temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTMD6723

GUARANTY AND SAFETY

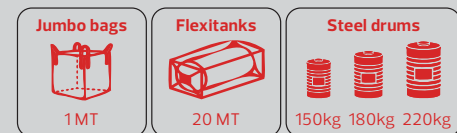
We as Iraq Altaqa Company guarantees the quality of Bitumen PG 70-10. To ensure this, an independent international inspection agency is arranged to verify both the quality and quantity of the Bitumen during vessel loading. Additionally, production is closely monitored by the Quality Control (QC) team through batch testing prior to shipment.

APPLICATIONS

PG 70-10 Bitumen is a highly versatile binder used in a wide range of applications, such as highways, airports, bridges, industrial areas, and rehabilitation projects. Known for its exceptional performance characteristics, it is ideal for heavy-duty pavements that must endure high temperatures and substantial traffic loads, ensuring both durability and a long service life. Proper storage and handling are essential to maintain its quality and guarantee optimal performance.

PACKAGING

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



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

RECOMMENDED WORKING TEMPERATURES

-  Storage temperature (°C): < 180
-  Mixing temperature (°C): 140-165
-  Maximum heating temperature (°C): 185

Complies with
ASTM D6373



Complies with
AASHTO M-320

