

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 70-16

IQTB-800-QL-TDS-0022

DESCRIPTION

Paving Grade Bitumen that complies with the specifications to the standard AASHTO M-320 or ASTM D6373 for PG 70-16. This is a type of asphalt binder classified within the Superpave Performance Grading system. This system assesses the performance of Bitumen based on its ability to withstand a range of temperature conditions, making it well-suited 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 performs exceptionally well under the pressure of constant vehicular load, maintaining pavement integrity with minimal surface distress over time.

SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 70	°C	--
Minimum pavement design temperature	> -16	°C	
Original Binder			
Flash point °C, Min	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 (AASHTOR28 / ASTMD6521)			
PAV Temperature	100 (110)	°C	AASHTO R28 / ASTMD6521
Dynamic Shear, G*.sin! at 31°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM 7175
Creep Stiffness at -6°C			
S value	300 Max	MPa	AASHTO T313 / ASTMD6648
M value (slope)	0.300 Min		AASHTO T313 / ASTMD6648
Direct Tension at, -6°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 70-16. 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 70-16 Bitumen is a versatile binder for expressways, highways, urban roads, intersections and industrial access routes. Its high-performance formula resists rutting and deformation under heavy, continuous traffic in hot-summer/moderate-winter climates and endures urban stop-start conditions. It also remains flexible under repeated industrial loading and seasonal shifts. Proper storage and handling ensure optimal quality and longevity.

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

