

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 82-16

IQTB-800-QL-TDS-0033

DESCRIPTION

Paving Grade Bitumen that complies with the specifications in the standard AASHTO M-320 or ASTM D6373 for PG 82-10. PG 82-16 is a premium polymer-modified asphalt binder designed for hot climates with moderately cold winters. It offers excellent stability in high temperatures while maintaining flexibility and crack resistance in colder conditions, making it ideal for road systems exposed to extreme heat and seasonal temperature changes.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 82	°C	--
Minimum pavement design temperature	> -16	°C	
Original Binder			
Flash point °C, Min	230 Min	°C	AASHTO T48 / ASTM D92
Viscosity @135°C	3.0 Max	Pa.s	AASHTO T316 / ASTM D4402
Dynamic Shear, G*/sin! at 82°C at 10 rad/s	1.0 Min	kPa	AASHTO T315 / ASTM D7175
Residual Binder from Rolling Thin-Film Test (AASHTO T240 / ASTM D2872)			
Mass change	1.0 Max	%Wt	AASHTO T240 / ASTM D2872
Dynamic Shear, G*/sin! at 82°C at 10 rad/s	2.2 Min	kPa	AASHTO T315 / ASTM D7175
Pressure Aging Vessel Residue (AASHTO R28 / ASTM D6521)			
PAV Temperature	100 (110)	°C	AASHTO R28 / ASTM D6521
Dynamic Shear, G*.sin! at 37°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM T7175
Creep Stiffness at -6°C			
S value	300 Max	MPa	AASHTO T313 / ASTM D6648
M value (slope)	0.300 Min		AASHTO T313 / ASTM D6648
Direct Tension @ -6°C			
Failure strain, Test Temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTM D6723

APPLICATIONS

PG 82-16 is ideal for expressways in arid and semi-arid regions, where high surface temperatures are common. It also excels on industrial roads and regional freight corridors, handling continuous loading in hot climates with mild winters. Additionally, PG 82-16 performs reliably on urban arterials, managing seasonal temperature shifts and heavy traffic.

PACKAGING

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

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



GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen PG 82-16. 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.