

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 82-22

IQTB-800-QL-TDS-0034

DESCRIPTION

Paving Grade Bitumen that complies with the specifications in the standard AASHTO M-320 or ASTM D6373 for PG 82-22. PG 82-22 is a high-performance, polymer-modified asphalt binder designed for regions with extreme heat and cold. It offers excellent rutting resistance and maintains flexibility to prevent cracking, making it ideal for roadways with high traffic loads and frequent freeze-thaw cycles.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 82	°C	--
Minimum pavement design temperature	> -22	°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 82°C at 10 rad/s	1.0 Min	kPa	AASHTO T315 / ASTMD7175
Residual Binder from Rolling Thin-Film Test (AASHTO T 240 / ASTM D2872)			
Mass change	1.0 Max	%Wt	AASHTO T240 / ASTMD2872
Dynamic Shear, G*/sin! at 82°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 / ASTM 7175
Creep Stiffness at -12°C			
S value	300 Max	MPa	AASHTO T313 / ASTMD6648
M value (slope)	0.300 Min		AASHTO T313 / ASTMD6648
Direct Tension @ -12°C			
Failure strain, Test Temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTMD6723

APPLICATIONS

PG 82-22 is ideal for mountain passes and cold region highways, withstanding seasonal temperature changes. It also performs well on urban expressways in freezing zones, handling repeated loading in harsh winters. Additionally, PG 82-22 is perfect for national and regional freight routes, offering durability for heavy-duty infrastructure in extreme temperatures.

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



GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen PG 82-22. 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.