

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 82-28

IQTB-800-QL-TDS-0035

DESCRIPTION

Paving Grade Bitumen that complies with the specifications in the standard AASHTO M-320 or ASTM D6373 for PG 82-28. PG 82-28 is a premium, polymer-modified asphalt binder designed for regions with extreme heat and cold. Fully compliant with Superpave performance grading standards, it performs well under high pavement temperatures and maintains flexibility in colder conditions. Built for areas facing thermal shock and heavy traffic loads, PG 82-28 ensures durable pavement performance in challenging environments.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 82	°C	--
Minimum pavement design temperature	> -28	°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 T240 / 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 31°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM 7175
Creep Stiffness at -18°C			
S value	300 Max	MPa	AASHTO T313 / ASTMD6648
M value (slope)	0.300 Min		AASHTO T313 / ASTMD6648
Direct Tension @ -18°C			
Failure strain, test temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTMD6723

APPLICATIONS

PG 82-28 is ideal for freeze-prone highways, especially northern routes with long winters and intense summer heat. It also performs well at airports and logistics terminals, handling thermal variation and high-impact loading. Additionally, PG 82-28 is perfect for long-haul transport corridors, ensuring durability under heavy traffic and extreme seasonal cycles.

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

GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen PG 82-28. 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.

Complies with
ASTM D6373



Complies with
AASHTO M-320

