

TECHNICAL DATA SHEET

PERFORMANCE GRADE BITUMEN PG 70-40

IQTB-800-QL-TDS-0026

DESCRIPTION

Paving Grade Bitumen that complies with the specifications in the standard AASHTO M-320 or ASTM D6373 for PG 70-40. This Bitumen Grade offers exceptional performance in both high and low-temperature conditions, making it a reliable choice for infrastructure projects in challenging climates. Its polymer-modified composition ensures enhanced durability, while compliance with industry standards guarantees quality and consistency.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Average 7-day maximum pavement design temperature	< 70	°C	--
Minimum pavement design temperature	> -40	°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 70°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	°C	AASHTO T240 / ASTM D2872
Dynamic Shear, G*/sin! at 70°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 19°C at 10 rad/s	5000 Max	kPa	AASHTO T315 / ASTM 7175
Creep Stiffness at -30°C			
S value	300 Max	MPa	AASHTO T313 / ASTM D6648
M value (slope)	0.300 Min		AASHTO T313 / ASTM D6648
Direct Tension at, -30°C			
Failure strain, Test Temp @ 1.0 mm/min	1.0 Min	%	AASHTO T314 / ASTM D6723

APPLICATIONS

PG 70-40 Bitumen is perfect for extreme cold region highways, including those in polar and subpolar climates with prolonged freezing conditions. It is also highly effective for arctic mining and logistics roads, engineered to withstand heavy loads in the harshest environments. Furthermore, PG 70-40 ensures reliable performance in critical winter transport networks, maintaining seamless mobility in remote and high-risk areas.

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 guarantees the quality of Bitumen PG 70-40. 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.