

TECHNICAL DATA SHEET

VISCOSITY GRADE BITUMEN VG-40

IQTB-800-QL-TDS-0011

DESCRIPTION

Bitumen VG-40 in accordance with IS 73:2013, is a Standard Viscosity Grade Bitumen commonly used for heavy-duty road construction and in highly stressed areas, where it must withstand substantial traffic loads and high temperatures. Due to its higher viscosity, VG-40 enables the production of stiffer Bitumen mixes, enhancing pavement resistance to elevated temperatures and heavy traffic conditions, as outlined in the below mentioned technical specifications.

VG-40 is produced from Vacuum Residue (VR) that undergoes air blowing in an Oxidation Blowing Unit. This continuous process ensures consistent, homogeneous quality that meets stringent national and international standards.



SPECIFICATIONS

Test	Specification	Unit	Test Method
Penetration @ 25°C	35 Min	mm/10	ASTM D5
Softening Point (R & B)	50 Min	°C	ASTM D36
Absolute viscosity @ 60°C	3200-4800	Poise	ASTM D2171
Kinematic Viscosity @ 135°C	400 Min	cSt	ASTM D2170
Solubility in Trichloroethylene	99 Min	%	ASTM D2042
Flash point	220 Min	°C	ASTM D92
After Rolling Thin-Film Oven Test (RTFO)			
Viscosity ratio at 60°C	4 Max	--	ASTM D2171
Ductility at 25°C	25 Min	cm	ASTM D113

RECOMMENDED WORKING TEMPERATURES

-  Storage temperature (°C): < 180
-  Mixing temperature (°C): 155-175
-  Compaction temperature (°C): 145-165

GUARANTY AND SAFETY

We as Iraq Altaqa Company guaranty the quality of Bitumen VG-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.

APPLICATIONS

VG-40 Bitumen is suitable for a range of asphalt mix designs and construction techniques, producing strong, cohesive mixes that can withstand all types of traffic. It is particularly ideal for heavy-traffic roads, maintenance, airport runways and taxiways, as well as container terminals.

PACKAGING

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

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

All packaging is weatherproof and engineered for safe, efficient handling and transportation in diverse operating environments.



Complies with
IS 73:2013