Homan
Refined Supply

DOCUMENT TYPE
TECHNICAL DATA SHEET

STANDARD
ASTM D946/D946M

DOCUMENT REF.
HMN-TDS-PEN-4050

EFFECTIVE DATE
OCT 2026 · REV. 01

CLASS: PENETRATION GRADE

BITUMEN 40/50

PAVING GRADE ASPHALT CEMENT

DESCRIPTION

HOMAN Penetration Grade 40/50 is a hard paving-grade asphalt cement produced by vacuum distillation of selected crude oils.

KEY FEATURES

- High resistance to rutting (permanent deformation)
- High stiffness modulus at elevated temperatures
- Softening point 52–60 °C for hot service

PRIMARY APPLICATIONS

- Heavy-duty highway and tollway paving
- Airport runway and taxiway construction
- Hot mix asphalt (HMA) in hot climates

INDEPENDENT VERIFICATION

SGS / EQUIVALENT

INDEPENDENT INSPECTION

Pre-shipment inspection by **SGS** or an equivalent independent inspector available on request. A Certificate of Analysis (COA) is issued for every batch.

AVAILABLE PACKING

- NEW STEEL DRUM (180 KG)
- JUMBO BAG (1 MT)
- FLEXITANK (20 MT)
- BULK VESSEL

RECOMMENDED: Jumbo Bag — 20 MT per 20ft, zero residue at asphalt plants.

SPECIFICATION LIMITS

SPECIFICATION	TEST METHOD	UNIT	LIMIT
Specific Gravity at 25 °C	ASTM D70	—	1.01–1.06
Penetration at 25 °C, 100g, 5s	ASTM D5	0.1 mm	40–50
Softening Point	ASTM D36	°C	52–60
Ductility at 25 °C	ASTM D113	cm	Min 100
Loss on Heating	ASTM D6	% m/m	Max 0.2
Drop in Penetration after Heating	ASTM D5	%	Max 20
Flash Point	ASTM D92	°C	Min 250
Solubility in Trichloroethylene	ASTM D2042	% m/m	Min 99
Spot Test	AASHTO T102	—	Negative

Refinery export specification limits, tested to ASTM methods. Where a contract cites ASTM D946/D946M grade 40-50, the standard governs; softening point, loss on heating, drop in penetration and spot test are export-sheet requirements additional to D946.

HS CODE	ORIGIN	HANDLING	SAFETY	CONTACT
2713.20	Iran	Heat in controlled-temperature tanks; avoid local overheating.	SDS on request	info@homancorp.com

HOMANCORP.COM

Values are specification limits per the stated standard; actual results are reported per batch on the Certificate of Analysis (COA).