



AVAND ENERGY

PRODUCT PROFILE • 2026

PREMIUM BITUMEN

SPECIFICATIONS & PRODUCT CATALOG

Refinery-sourced supply • ASTM-oriented quality control • Export-ready packaging and logistics

7,000

MT / MONTH

Supply capacity

ASTM

QC BASIS

Batch documentation

3

PACKAGING

Drum • Jumbo • Bulk

FOB

CFR / CIF

Flexible trade terms



THE AVAND ADVANTAGE

A compact supply platform built for international bitumen buyers

WHO WE ARE

Reliable supply. Clear specifications. Export discipline.

Avand Energy supplies paving-grade bitumen for international road, infrastructure and industrial projects. Our commercial model combines direct refinery sourcing from Pasargad Oil and Jey Oil, structured quality control, and flexible export packaging so buyers can select the grade, loading mode and delivery term that best fit each destination.

01 Refinery-Direct Sourcing

Supply planning based on direct refinery procurement channels with a focus on stable quality and repeatable export specifications.

02 7,000 MT / Month

Planned monthly supply capacity for penetration and viscosity grades, subject to grade, packing format and loading schedule.

03 ASTM Quality Control

Batch-level testing and documentation aligned with applicable ASTM methods and customer contract specifications.





PENETRATION GRADES

40/50 • 60/70 • 80/100 — practical selection across climate and traffic conditions

MASTER SPECIFICATION TABLE

Penetration grades are selected primarily by hardness and temperature sensitivity. The ranges below are typical export specifications used for product selection; the final batch COA and purchase contract govern.

TEST	METHOD	UNIT	40/50	60/70	80/100
Specific Gravity @ 25/25°C	ASTM D70	-	1.01-1.06	1.01-1.06	1.01-1.06
Penetration @ 25°C, 100g, 5s	ASTM D5	0.1 mm	40-50	60-70	80-100
Softening Point (Ring & Ball)	ASTM D36	°C	52-60	49-56	45-52
Ductility @ 25°C	ASTM D113	cm	Min 100	Min 100	Min 100
Loss on Heating	ASTM D6	wt %	Max 0.20	Max 0.20	Max 0.20
Drop in Penetration after Heating	ASTM D5 / D6	%	Max 20	Max 20	Max 20
Flash Point, Cleveland Open Cup	ASTM D92	°C	Min 250	Min 232	Min 232
Solubility in Trichloroethylene	ASTM D2042	wt %	Min 99.0	Min 99.0	Min 99.0
Spot Test	AASHTO T102	-	Negative	Negative	Negative

GRADE SELECTION

40/50 Hot climates • heavy traffic

Higher hardness and rutting resistance.

60/70 Moderate climates • general paving

Most widely traded penetration grade.

80/100 Cooler climates • flexible mixes

Softer binder for lower-temperature service.



PENETRATION GRADE GUIDE

A practical commercial view of where each grade fits

FIELD SELECTION

One binder family, three service profiles.

Climate, pavement structure, axle loads, traffic speed and local specifications should be considered together before grade selection.

40/50

HOT / HIGH STRESS

Designed for hot regions and heavier loading where additional stiffness is preferred.

Road bases • wearing courses • high-temperature service

60/70

GENERAL PURPOSE

A balanced semi-hard grade widely used in hot-mix asphalt and export road projects.

Moderate climates • highways • urban paving

80/100

COOL / FLEXIBLE

A softer penetration grade suited to cooler environments and applications requiring greater flexibility.

Cold regions • lower-temperature pavement service



VISCOSITY GRADES

VG20 • VG30 • VG40 — viscosity-controlled paving binders popular in South Asian markets

IS 73:2013 REFERENCE

Viscosity grades are classified by binder flow resistance. They provide a more direct viscosity control at road-service and mixing temperatures, making them widely specified for Indian and regional infrastructure projects.

PROPERTY	TEST METHOD	UNIT	VG20	VG30	VG40
Penetration @ 25°C, 100g, 5s	IS 1203 / ASTM D5	0.1 mm	Min 60	Min 45	Min 35
Absolute Viscosity @ 60°C	IS 1206 Pt.2 / ASTM D2171	Poise	1600-2400	2400-3600	3200-4800
Kinematic Viscosity @ 135°C	IS 1206 Pt.3 / ASTM D2170	cSt	Min 300	Min 350	Min 400
Flash Point (Cleveland Open Cup)	IS 1448 / ASTM D92	°C	Min 220	Min 220	Min 220
Solubility in Trichloroethylene	IS 1216 / ASTM D2042	%	Min 99.0	Min 99.0	Min 99.0
Softening Point (Ring & Ball)	IS 1205 / ASTM D36	°C	Min 45	Min 47	Min 50
RTFOT Viscosity Ratio @ 60°C	IS 1206 Pt.2	ratio	Max 4.0	Max 4.0	Max 4.0
Ductility @ 25°C after RTFOT	IS 1208 / ASTM D113	cm	Min 50	Min 40	Min 25

VG20

Moderate climates

Low to medium traffic

VG30

Warm climates

Common paving grade; strong 60/70 alternative

VG40

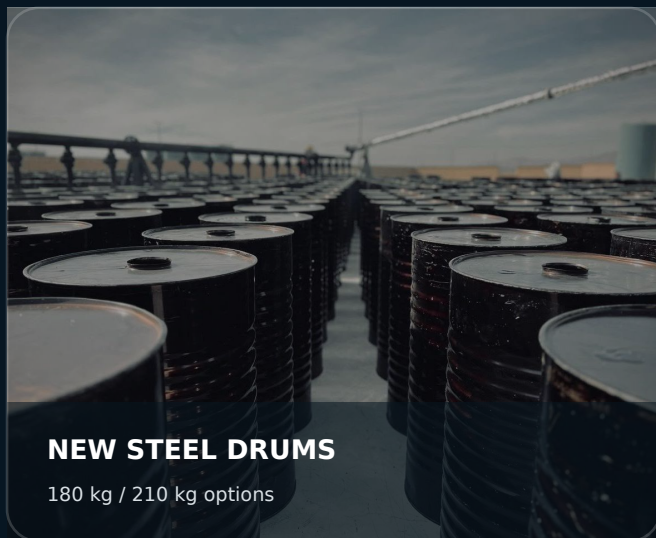
Very hot / high stress

Intersections • toll plazas • heavy traffic



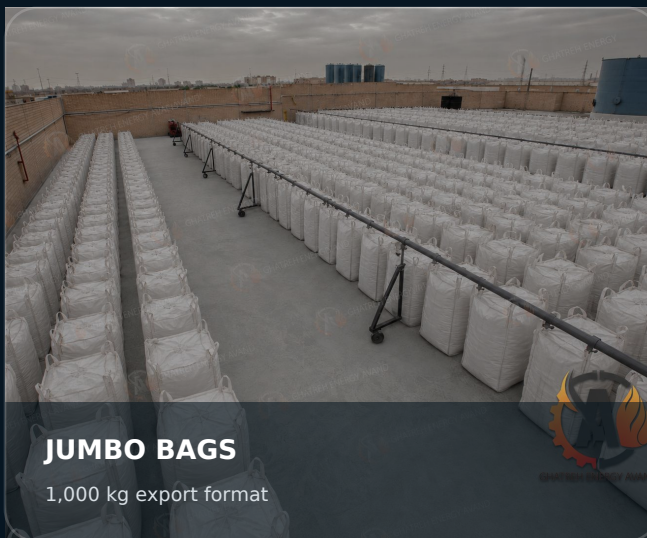
PACKAGING & LOGISTICS

Export formats designed around handling cost, container utilization and destination requirements



NEW STEEL DRUMS

180 kg / 210 kg options



JUMBO BAGS

1,000 kg export format



BULK BITUMEN

Tanker / dedicated carrier loading

STEEL DRUMS

- Net 180 or 210 kg
- Gross approx. 190 or 220 kg
- 20 ft: up to 110 drums
- ~19.8-23 MT net

JUMBO BAGS

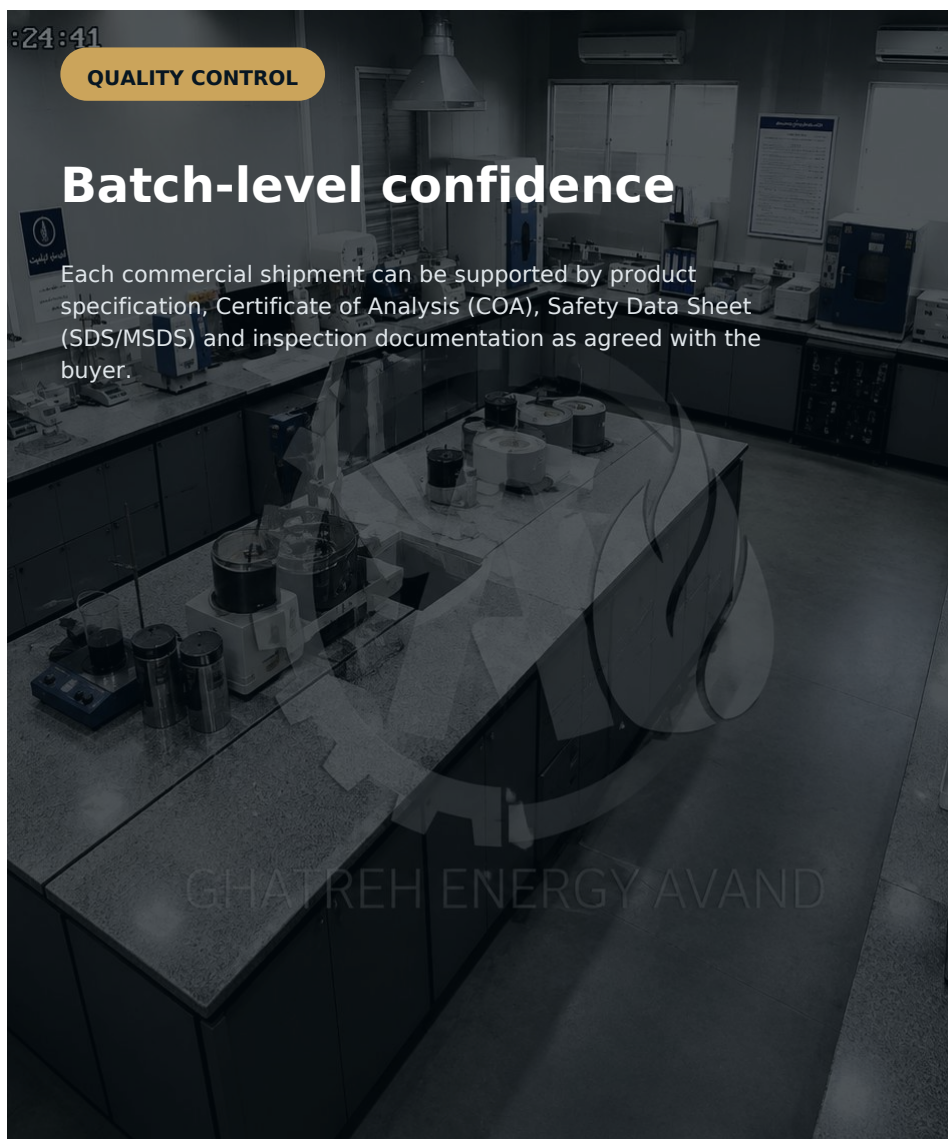
- Net approx. 1,000 kg
- Steel frame / pallet options
- 20 ft: approx. 20 bags
- ~20 MT net

BULK

- Hot liquid loading
- Road tanker / bitumen carrier
- Quantity by vessel / tanker plan
- Dedicated heating logistics

QUALITY, DOCUMENTATION & TRADE SUPPORT

A buyer-ready documentation package from product selection through shipment



01 COA

Batch test results and traceability

02 SDS / MSDS

16-section product safety information

03 INSPECTION

Loading / quantity inspection on request

04 TRADE TERMS

FOB • CFR • CIF shipment structures

05 PACKING LIST

Container and net-weight documentation

06 CUSTOM SPECS

Contract-specific limits when feasible

COMMERCIAL NOTE

Product ranges and logistics are confirmed against destination, incoterm, packing format and the buyer's technical specification before final quotation.



GHATREH ENERGY AVAND

LET'S BUILD THE SHIPMENT

BITUMEN SUPPLY, READY FOR EXPORT.

Tell us the grade, monthly quantity, destination port and preferred packing format. Our commercial team can structure the offer under FOB, CFR or CIF terms.

SALES & EXPORT

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DELIVERY TERMS

FOB • CFR • CIF

SUPPLY CAPACITY

Up to 7,000 MT / month

All specifications, capacities and container loadings are subject to contract confirmation, batch COA, destination regulations and carrier limitations.

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