

# PETROKAR

GENERAL TRADING

TECHNICAL DATA SHEET

## **BITUMEN ASPHALTIC CEMENT GRADE**



# BITUMEN 30/40

(Penetration Grade)

Test	30-40	Method
Specific gravity @25/25C	1/01-1/06	ASTM D70
Penetration ,25°C,100g 5s,min	30-40	ASTM D5
Softening point °C	55-63	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	250 min	ASTM-D92
Solubility in trichloroethylene (min %)	99.5 min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	20 max	ASTM-D5&D6
Loss on heating(%wt)	0.2 max	ASTM-D6

**Penetration Grade Bitumen** finds common usage in road construction, surfacing, and various industrial applications. Further processing of this Bitumen type results in diverse Bitumen product grades. The Penetration Test assesses Bitumen hardness by measuring the depth (in tenths of a mm) a standard, loaded needle penetrates vertically into a sample of Bitumen maintained at 25°C within 5 seconds. Consequently, higher penetration unit values indicate softer Bitumen. Our Penetration Grade 30/40 Bitumen is well-suited for hot climate regions like Southeast Asia, the Middle East, Africa, and the Sahel region of West Africa, providing excellent heat resistance and long-lasting performance.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

**HEALTH & SAFTY:** Ensure to review the Material Safety Data Sheet (MSDS) accompanying this document for health and safety information.

**Disclaimer:** The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

# BITUMEN 40/50

(Penetration Grade)

Test	40-50	Method
Specific gravity @25/25C	1/01-1/06	ASTM D70
Penetration ,25°C,100g 5s,min	40-50	ASTM D5
Softening point °C	52-60	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	250 min	ASTM-D92
Solubility in trichloroethylene (min %)	99.5 min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	20 max	ASTM-D5&D6
Loss on heating(%wt)	0.2 max	ASTM-D6

**Penetration Grade Bitumen** used in road construction and industrial applications, can be refined into different grades. The hardness of Bitumen, assessed through the Penetration Test, is determined by how deep a standard, loaded needle penetrates a sample at 25°C in 5 seconds. Consequently, higher penetration unit values indicate softer Bitumen. Our Penetration Grade 40/50 Bitumen is widely employed in the production of Asphalt Mixes, Cut-back Bitumen, Bitumen Emulsions, and Modified Bitumen and is well-suited for hot climate regions like Southeast Asia, the Middle East, Africa, and the Sahel region of West Africa, providing excellent heat resistance and long-lasting performance.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

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# BITUMEN 60/70

(Penetration Grade)

Test	60-70	Method
Specific gravity @25/25C	1/01-1/06	ASTM D70
Penetration ,25°C,100g 5s,min	60-70	ASTM D5
Softening point °C	49-56	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	250 min	ASTM-D92
Solubility in trichloroethylene (min %)	99.5 min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	20 max	ASTM-D5&D6
Loss on heating(%wt)	0.2 max	ASTM-D6

**Penetration Grade Bitumen** is a widely used material in road construction, surfacing, and certain industrial applications. It can be processed to produce various grades of Bitumen products. The Penetration Test assesses Bitumen hardness by measuring how deep a standard loaded needle can penetrate a sample of Bitumen at 25°C within 5 seconds. In temperate climates, our Penetration Grade 60/70 Bitumen is the preferred choice for road construction projects due to its balanced performance and workability, ensuring optimal outcomes in such regions.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

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# BITUMEN 85/100

(Penetration Grade)

Test	85-100	Method
Specific gravity @25/25C	1/01-1/05	ASTM D70
Penetration ,25°C,100g 5s,min	85-100	ASTM D5
Softening point °C	45-52	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	230 min	ASTM-D92
Solubility in trichloroethylene (min %)	99.5 min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	20 max	ASTM-D5&D6
Loss on heating(%wt)	0.5 max	ASTM-D6

**Penetration Grade Bitumen** finds widespread use in road construction, surfacing, and some industrial applications. Further processing of this type of Bitumen results in various Bitumen product grades. The Penetration Test assesses Bitumen hardness by measuring the depth (in tenths of a millimeter) a standard, loaded needle penetrates vertically into a 25°C Bitumen sample within 5 seconds. A higher number of penetration units indicates softer Bitumen. Penetration Grade 85/100 Bitumen is tailored for cold climates and low-traffic areas, offering exceptional performance, making it an ideal choice for specialized road construction projects.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

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# BITUMEN 100/120

(Penetration Grade)

Test	100-120	Method
Specific gravity @25/25C	1/01-1/04	ASTM D70
Penetration ,25°C,100g 5s,min	100-120	ASTM D5
Softening point °C	42-49	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	250 min	ASTM-D92
Solubility in trichloroethylene (min %)	99.5 min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	20 max	ASTM-D5&D6
Loss on heating(%wt)	0.2 max	ASTM-D6

**Penetration Grade Bitumen** finds widespread use in road construction, surfacing, and some industrial applications. Further processing of this type of Bitumen results in various Bitumen product grades. The Penetration Test assesses Bitumen hardness by measuring the depth (in tenths of a millimeter) a standard, loaded needle penetrates vertically into a 25°C Bitumen sample within 5 seconds. A higher number of penetration units indicates softer Bitumen. Penetration Bitumen Penetration Grade 100-120 is a semi-hard type suitable for paving, road construction, repairs, and asphalt pavement production.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

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# BITUMEN 200/300

(Penetration Grade)

Test	200-300	Method
Specific gravity @25/25C	0.99-1/04	ASTM D70
Penetration ,25°C,100g 5s,min	200-300	ASTM D5
Softening point °C	32min	ASTM D-36
Ductility ,25°C,5cm/min/cm	100 min	ASTM D-113
Flash Point °C	177min	ASTM-D92
Solubility in trichloroethylene (min %)	99.0min	ASTM-D2042
Spot test	Negative	A.A.S.H.T.T102
Drop in penetration after heating%	37min	ASTM-D5&D6
Loss on heating(%wt)	1max	ASTM-D6

**Penetration Grade Bitumen** finds widespread use in road construction, surfacing, and some industrial applications. Further processing of this type of Bitumen results in various Bitumen product grades. The Penetration Test assesses Bitumen hardness by measuring the depth (in tenths of a millimeter) a standard, loaded needle penetrates vertically into a 25°C Bitumen sample within 5 seconds. A higher number of penetration units indicates softer Bitumen. Bitumen Penetration Grade 200-300 is typically employed in road construction, asphalt pavement production, and similar applications due to its superior properties.

**Quality:** All Bitumen offerings consistently adhere to the highest quality standards, fully complying with ASTM, AASHTO, EN, and BS International Standards and Test Methods. Upon request, we engage in meticulous quality testing and analysis, guaranteeing conformity with product specifications and international standards. Our manufacturing process is meticulously quality-assured and aligns seamlessly with BS EN 12591 and BS EN 13924.

**Packaging:** Bitumen is typically stored in new steel drums of different sizes, though alternative packaging options may be used depending on the source and the distance between the manufacturing and consumption locations.

**Storage and Handling:** Store the substance in unopened containers and ensure the storage temperature remains within the range of 1°C to 50°C. For routine processes like mixing and moving liquid bitumen, maintain temperatures that are at least 10°C to 40°C above the minimum pumping temperature.

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