

PETROKAR

GENERAL TRADING

TECHNICAL DATA SHEET

BITUMEN ASPHALTIC CEMENT GRADE



BITUMEN AC 10

(AC Grade)

Test	AC-10	Test Methods
Dynamic viscosity @60°C (poise)	1000±200	ASTM D-2171
Kinematic Viscosity @135°C (Min, Cst)	250	ASTM D-2171
Penetration ,25°C,100g 5s,min	80	ASTM D-5
Flash Point °C	220	ASTM D-92
Solubility in trichloroethylene (min %)	99	ASTM D-2042
Test on residue from thin film oven test viscosity @60°,max,poise	5000	ASTM D-2171
Ductility ,25°C,5cm/min/cm	75	ASTM D-113
Spot test		
Naphtha solvent		Negative
Naphtha-xylene solvent ,xylene percentage		Negative
Heptane-xylene solvent ,xylene percentage		Negative

AC bitumen is a performance-graded material, selected based on asphalt cement binder stiffness, making it suitable for a wide range of road construction applications. AC 10 Grade Bitumen is well-suited for light traffic roads in temperate climates like parts of Europe and North America. Its lower stiffness provides excellent workability and resistance to temperature-related cracking, making it an ideal choice for residential streets and rural roads. Its enhanced durability ensures long-lasting performance in these 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.

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

BITUMEN AC 20

(AC Grade)

Test	AC-20	Test Methods
Dynamic viscosity @60°C (poise)	2000±400	ASTM D-2171
Kinematic Viscosity @135°C (Min, Cst)	300	ASTM D-2171
Penetration ,25°C,100g 5s,min	60	ASTM D-5
Flash Point °C	230	ASTM D-92
Solubility in trichloroethylene (min %)	99	ASTM D-2042
Test on residue from thin film oven test viscosity @60°,max,poise	10000	ASTM D-2171
Ductility ,25°C,5cm/min/cm	50	ASTM D-113
Spot test		
Naphtha solvent		Negative
Naphtha -xylene solvent ,xylene percentage		Negative
Heptane-xylene solvent ,xylene percentage		Negative

AC bitumen is a performance-graded material, selected based on asphalt cement binder stiffness, making it suitable for a wide range of road construction applications. AC 20 Grade Bitumen is ideal for moderate traffic road projects in regions with diverse climates, such as parts of Europe, Asia, and South America. Its balanced stiffness and resistance to deformation make it a fitting choice for urban roads, highways, and intersections.

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.

BITUMEN AC 30

(AC Grade)

Test	AC-30	Test Methods
Dynamic viscosity @60°C (poise)	3000±600	ASTM D-2171
Kinematic Viscosity @135°C (Min, Cst)	350	ASTM D-2171
Penetration ,25°C,100g 5s,min	50	ASTM D-5
Flash Point °C	230	ASTM D-92
Solubility in trichloroethylene (min %)	99	ASTM D-2042
Test on residue from thin film oven test viscosity @60°,max,poise	15000	ASTM D-2171
Ductility ,25°C,5cm/min/cm	40	ASTM D-113
Spot test		
Naphtha solvent		Negative
Naphtha -xylene solvent ,xylene percentage		Negative
Heptane-xylene solvent ,xylene percentage		Negative

AC bitumen is a performance-graded material, selected based on asphalt cement binder stiffness, making it suitable for a wide range of road construction applications. Our AC 30 Grade bitumen is the preferred choice for demanding road construction in regions with harsh climates like Canada, Russia, and Northern Europe. It offers higher stiffness, superior resistance to rutting and fatigue, and excels in heavy traffic areas, expressways, and bridges.

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.

BITUMEN AC 40

(AC Grade)

Test	AC-40	Test Methods
Dynamic viscosity @60°C (poise)	4000±800	ASTM D-2171
Kinematic Viscosity @135°C (Min, Cst)	400	ASTM D-2171
Penetration ,25°C,100g 5s,min	40	ASTM D-5
Flash Point °C	230	ASTM D-92
Solubility in trichloroethylene (min %)	99	ASTM D-2042
Test on residue from thin film oven test viscosity @60°,max,poise	20000	ASTM D-2171
Ductility ,25°C,5cm/min/cm	25	ASTM D-113
Spot test		
Naphtha solvent		Negative
Naphtha -xylene solvent ,xylene percentage		Negative
Heptane-xylene solvent ,xylene percentage		Negative

AC bitumen is a performance-graded material, selected based on asphalt cement binder stiffness, making it suitable for a wide range of road construction applications. AC 40 Grade bitumen is the preferred choice for road construction projects in regions with extreme climates, including Canada, Russia, and Northern Europe. This material boasts superior stiffness, exceptional resistance to rutting and fatigue, and is well-suited for high-traffic areas, expressways, and bridges.

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.