



pioneer  
of  
Bitumen and Gilsonite



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# JGP Company

## Jahan Ghir Pars Company

with experienced management started to work for long-term activity to aid development of our country in 2012.

The company is activity is production and sales of Bitumen and Gilsonite  
JGP is honored to be the pioneer of export and sale high speed system of transportation all over the world .

Gilsonite as a unique mineral is used in more than 160 product, primarily in dark-colored printing inks and paints, oil well drilling muds and cements, asphalt modifiers, foundry sands additives and a wide variety of chemical products

High quality Iran bitumen produced according to ASTM standards.

We are using modern bitumen tankers, bitutainers, flexi tank, bitubag and storage terminals.

## Oxidized Bitumen

Oxidized bitumen grades are suitable for :

Sealing saw cuts and joints where there is expected to be the minimum amount of moving in the joint.

Their wide temperature range prevents bleeding in high temperature applications.

Oxidized bitumen can also be used in industrial applications like roofing, flooring, mastics, pipe coatings, electrical applications.

PROPERTY	GRADES							
	R85/25	R90/15	R90/40	R95/15	R95/25	R115/15	R125/10	R150/5
RANGE OF SOFTENING POINT °C, RING AND BALL METHOD	80-90	85-95	85-95	90-100	90-100	110-120	120-130	145-155
RANGE OF PENETRATION (100G /5S /25°C), 0.1 MM	20-30	10-20	35-45	10-20	20-30	10-20	7-12	3-7
FLASH POINT, MIN °C (COC)	250	250	250	250	250	250	250	250
SOLUBILITY IN CARBON DISULPHIDE, TRICHLOROETHYLENE OR CARBON TETRACHLORIDE, PER CENT BY MASS, MIN.	99	99	99	99	99	99	99	99
ASH CONTENT, PER CENT BY MASS, MAX	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LOSS ON HEATING FOR B H AT 163°C PER CENT BY MASS, MAX	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

25 KG Craft Bag



25 KG PP bag



25 KG bag on pallet



# Cutback Bitumen

Cutback asphalt is simply a combination of asphalt cement and petroleum solvent and reduce asphalt viscosity for lower temperature uses .

property	Test method	grade									
		MC-30		MC-70		MC-250		MC-800		MC-3000	
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Kinematic Viscosity at 60°C mm <sup>2</sup> /s	ASTM D2170	60	30	140	70	500	250	1600	800	6000	3000
Flash Point (Tag Open-Cup),°C	ASTM D3143	□	38	□	38	□	66	□	66	-	66
<b>Distillate Test : Distillate, Volume Percent of Total Distillate to 360°C</b>											
To 225°C	ASTM D402	25	□	20	□	10	□	-	-	-	-
To 260°C	ASTM D402	70	40	60	20	55	15	35	-	15	-
To 316°C	ASTM D402	93	75	90	65	87	60	80	45	75	15
Residue from distillation to 360°C, percent volume by difference	ASTM D402	□	50	□	55	□	67	□	75	-	80
<b>Tests on Residue from Distillation</b>											
Viscosity at 60 °C,	ASTM D2170	120	30	120	30	120	30	120	30	120	30
Penetration at 25 °C,	ASTM D5	250	120	250	120	250	120	250	120	250	120
Ductility at 25 °C,	ASTM D113	□	100	□	100	□	100	□	100	□	100
Solubility in trichloroethylene, %	ASTM D2042	□	99	□	99	□	99	□	99	□	99
Water, %	ASTM D95	0.2	□	0.2	□	0.2	□	0.2	□	0.2	□



**Steel Drum on Pallet**



**1000 KG Jumbo Bag**



**170 KG Steel Drum**



Cutbacks Bitumen  
Used for tack coats, fog seals, slurry seals, stabilization material...

## Penetration Bitumen

Penetration Grade Bitumen is a standard bitumen usually used as a road construction essential for heavy traffic road and for the production of asphalt pavements with various application, and it's very important once it bounds the aggregates and creates a unique cohesion and stability to the bituminous mix.

property	Unit	Test method	Grades										
			250/330	160/200	100/150	85/100	80/100	60/70	50/70	40/60	35/50	30/45	20/30
Penetration at 25 °C	0.1mm	ASTM D5	250-330	160-220	100-150	85-100	80-100	60-70	50-70	40-60	35-50	30-45	20-30
Softening Point	°C	ASTM D36	30-38	35-43	39-47	41-49	42-50	48-52	46-54	48-56	50-58	52-60	55-63
Spot Test	%	A.A.S.H.O.T 102	1.0	1.0	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
Drop penetration after loss on heating	%	ATSM D6/D5	5	5	5	5	5	5	5	5	5	5	2
Ductility	Cm	ASTM D113	100	100	100	100	100	100	100	100	100	100	100
Flash Point Minimum	°C	ASTM D92	220	220	230	230	230	230	230	230	240	240	240
Solubility Minimum	% (m/m)	ASTM D4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

**Steel Drum filling**



**Hot Bitumen Steam**



**25 KG poly amide bag**



## Emulsion Bitumen

Bitumen Emulsion that is categorized in various road construction industries .

<b>Grades</b>									
		<b>CRS1</b>		<b>CRS2</b>		<b>CSS1</b>		<b>CMS2</b>	
<b>Test on Emulsions</b>									
<b>property</b>	<b>Testmethod</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>
Viscosity, Saybolt Furol at 25 °C, SFS	ASTM D244	□		-	-	100	20	-	-
Viscosity, Saybolt Furol at 25 °C, SFS	ASTM D3143			100	400	-	-	40	450
Storage stability test, 24-h, %	ASTM D6930	20	100	-	1	1	-	-	1
Demulsibility, 35 mL, 0.8 % dioctyl sodium sulfosuccinate, %	ASTM D6936		1	40	-	-	-	-	-
<b>Coating ability and water resistance</b>									
Coating, dry aggregate	ASTM D244	□	□	-	-	-	-	good	-
Coating, after spraying	ASTM D244	□	□	-	-	-	-	Fair	-
Coating, wet aggregate	ASTM D244			-	-	-	-	Fair	-
Coating, after spraying	ASTM D244			-	-	-	-	Fair	-
Particle charge test	ASTM D244	positive		positive		positive		positive	
Sieve test, %	ASTMD6933	□	0.1	□	0.1	□	0.1	-	0.1
Cement mixing test, %	ASTMD6935	□	□	-	-	-	2.0	-	-
<b>Tests on residue from distillation test</b>									
Penetration, 25°C (77°F), 100 g, 5 s	ASTM D5	100	250	100	250	100	250	100	250
Ductility, 25°C (77°F), 5 cm/min, cm	ASTM D113	40	-	40	-	40	-	40	-
Solubility in trichloroethylene, %	ASTM D2042	97.5	-	97.5	-	97.5	-	97.5	-



Open top Drum



Shrunk Drums



Bitumen Tanker



# Gilsonite

Gilsonite is known with jgpc brand in the world . It is used as a performance-enhancing agent for asphalt mixes.

property	Test method	Grades				
		Road Paving	Oil Drilling	Pipe Coating	Painting & Ink	Foundry
Softening Point	(ASTM E28-92)	166-180°C	>=232°C >=450°F	154-169°C 310-335°F	154-169°C 310-335°F	190-220°C
Ash	(ASTM D271-70 M)	2.0% Maximum	<=3.0%	0.25-0.40% Typical 0.90% Max. Guaranteed	0.25-0.40% Typical 0.90% Max. Guaranteed	20 % Maximum
Moisture	(AGC Method)	1.0% Maximum	<=1.0%	0.2-0.5% Typical 0.7% Max. Guaranteed	0.2-0.5% Typical 0.7% Max. Guaranteed	1-3 %
Penetration	(25°C, 100 gm, 5sec.)	0	0	0	0	0
Color in Mass	-	black	Black	Black	Black	
Flash Point	(COC)	316°C; 600°F	316°C; 600°F	316°C; 600°F	316°C; 600°F	
Sulfur	-	0.3%	0.3%	0.3%	0.3%	4%
Specific Gravity	-	1.05	1.06	1.04	1.04	
Viscosity	(25°C, 30% solids, Magie 470)			1,500-6,000 cPs	1,500-6,000 cPs	

1000 KG Jumbo Bag



Gilsonite Lump



25 KG Bag on pallet

