



EXPORTERS AND SUPPLIERS OF BITUMEN

Leading Manufacturers, Exporters, Packers and Suppliers of Penetration Bitumen and Oxidized Bitumen to Africa and Europe.

Tiger Bitumen owned by HY International Group is well known Brand of Bitumen for various Grades including of Penetration Grade Bitumen, Performance Grade Bitumen, Viscosity Grade Bitumen, Australian Standard Bitumen, Oxidized Bitumen, Cutback Bitumen, Coat Bitumen and Emulsion Bitumen. Tiger Bitumen is sourced from Best Refineries located in Middle East and South East Asia having State of the Art technologies. Bulk Bitumen is acquired in Bitumen Vessels and stored in our Bitumen Storage Tanks and further packed in New Drums at our Packaging Facilities located in Karachi Export Processing Zone for re-exportation purposes only. Our strategically and geographically located facility in Karachi Export Processing Zone (Karachi Freezone) enable us to offer prompt and direct shipment deliveries from Karachi Port and Port Qasim located within proximity of 20 Km from our Karachi Freezone facility to major African and European Ports with Direct Vessel Services within 3 days of order confirmation from our ready stocks. Last but not least, our annual and bi-annual contracts with Refineries enable us to offer Best Competitive Prices all the year around.

CONTENT

DIGITAL PROFILE – INDEX MAPPED WITH GRADES

(CLICK ON GRADES/PAGE FOR MORE DETAILS)

01	About Us
>	Tiger Bitumen04
>	Director's Message04
>	Our Vision04
>	Our Mission04

02	Products
>	Penetration Bitumen05
>	Performance Grade Bitumen05
>	Viscosity Grades Bitumen05
>	Australian Standard Bitumen06
>	Oxidized Bitumen06
>	Cutback Bitumen06
>	Coat Bitumen06
>	Emulsion Bitumen06

03	Penetration Bitumen
>	Penetration Bitumen Grades07
>	Bitumen 30/4007
>	Bitumen 40/5007
>	Bitumen 60/7008
>	Bitumen 80/10008
>	Bitumen 85/10008
>	Bitumen 100/12009
>	Bitumen 160/22009

04	Performance Grade Bitumen
>	Performance Grade Bitumen10
>	Performance Grade 52-1010
>	Performance Grade 52-1611
>	Performance Grade 52-2212
>	Performance Grade 58-1013
>	Performance Grade 58-1614
>	Performance Grade 58-2215
>	Performance Grade 64-1016
>	Performance Grade 64-1617
>	Performance Grade 64-2218
>	Performance Grade 70-1019
>	Performance Grade 70-1620
>	Performance Grade 76-1021

05	Viscosity Grade Bitumen
>	Viscosity Grade Bitumen22
>	Bitumen VG-1022
>	Bitumen VG-2023
>	Bitumen VG-3023
>	Bitumen VG-4024
>	Bitumen AC-2.524
>	Bitumen AC-525
>	Bitumen AC-1025
>	Bitumen AC-2026
>	Bitumen AC-3026
>	Bitumen AC-4027
>	Bitumen AR-100027
>	Bitumen AR-200028
>	Bitumen AR-400028
>	Bitumen AR-800029
>	Bitumen AR-1600029

06	Australian Standard Bitumen
>	Australian Standard Bitumen30
>	Class 17030
>	Class 32031
>	Class 60031

07	Oxidized Bitumen
>	Oxidized Bitumen32
>	Bitumen 85/2532
>	Bitumen 95/2532
>	Bitumen 115/1532



CONTENT

DIGITAL PROFILE – INDEX MAPPED WITH GRADES

(CLICK ON GRADES/PAGE FOR MORE DETAILS)

08 | Cutback Bitumen

> Cutback Bitumen	33
> Slow Curing	34
> Slow Curing SC-30	34
> Slow Curing SC-70	34
> Slow Curing SC-250	35
> Slow Curing SC-800	35
> Slow Curing SC-3000	35
> Medium Curing	36
> Medium Curing MC-30	36
> Medium Curing MC-70	37
> Medium Curing MC-250	37
> Medium Curing MC-800	38
> Medium Curing MC-3000	38
> Rapid Curing	39
> Rapid Curing RC-30	39
> Rapid Curing RC-70	40
> Rapid Curing RC-250	40
> Rapid Curing RC-800	41
> Rapid Curing RC-3000	41

09 | Coat Bitumen

> Coat Bitumen	42
> Primer Bitumen	42
> Mastic Bitumen	43
> Enamel Bitumen	43

10 | Emulsion Bitumen

> Emulsion Bitumen Grades	45
> Cationic Bitumen Emulsion	46
> Cationic Emulsion Slow Setting CSS-1.....	46
> Cationic Emulsion Slow Setting CSS-1H	46
> Cationic Emulsion Medium Setting CMS-2	47
> Cationic Emulsion Rapid Setting CRS-1.....	47
> Cationic Emulsion Rapid Setting CRS-1H	47
> Cationic Emulsion Rapid Setting CRS-2.....	47
> Cationic Emulsion Tack Coat K1-30	48
> Cationic Emulsion Tack Coat K1-40	48
> Cationic Emulsion Tack Coat K1-60	48
> Cationic Emulsion Tack Coat K1-70	48
> Anionic Bitumen Emulsion	49
> Anionic Emulsion Slow Setting SS-1	49
> Anionic Emulsion Slow Setting SS-1H	49
> Anionic Emulsion Medium Setting MS-1	50
> Anionic Emulsion Medium Setting MS-2	50
> Anionic Emulsion Medium Setting MS-4	50
> Anionic Emulsion Medium Setting MS-5	50
> Anionic Emulsion Rapid Setting RS-1	51
> Anionic Emulsion Rapid Setting RS-1H	51
> Anionic Emulsion Rapid Setting RS-S	51

11 | Bitumen Drum Packing

> Bitumen Drum Production	52
> Bitumen Drum Specifications	52

12 | Contact

> Contact Info	53
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ABOUT US

WHO WE ARE

Exporters and Suppliers of Bitumen Products

HY International Group (HYG) is recognized internationally as a Leading Exporter and Supplier of Premium Quality Tiger Bitumen Products including, Penetration Bitumen, Performance Grades Bitumen, Viscosity Grades Bitumen, Australian Standard Bitumen, Oxidized Bitumen, Cutback Bitumen, Coat Bitumen and Emulsion Bitumen. Our Wide Range of Innovative Bitumen Products are designed to meet the Challenges of Road Construction, Roofing, Coating, Water Proofing and Airport sectors, alongside Specialty and Industrial applications. Our Tiger Cement and Tiger Bitumen Products have already captured the substantial share of the Construction Market due to the High Quality, Reliability and Customer satisfaction in Africa and Europe.



Director's Message

“It is my Honor to convey this Greeting message to our esteemed Customers, Counterparts and our Investors on behalf of HYG. We have established into a great group with all your sincere and loyal support earlier from merely a trading company. HYG grew from a company that achieved the exceptionally highest levels of Quality Shipments with timely deliverance and Customer Services without any compromise on our commitments either written or verbally committed. HYG established from a company that carries itself in the marketplace with the highest levels of business ethics. Now a great group composed of dedicated, accomplished professionals, who are highly committed to customers. We are here to build an everlasting relation in which we can be proud of.”

Respectfully,
Mr. Yousuf Haroon



Our Vision

Our Vision is Innovation of new Bitumen Products with Extensive R&D while expanding vertically and horizontally in Manufacturing and Packaging of Bitumen Products for sustainability for our generations to come.



Our Mission

Our Mission is Self Centered; Customer Satisfaction. Committed Quality for Prompt Shipments and Customer friendly trade policies for Business 2 Business transactions.

BITUMEN ASPHALT PRODUCTS

Bitumen Products – Asphalt Products

Exporter and Supplier of Wide Range Bitumen Products

Tiger Bitumen is well known Brand in Bitumen Market. Our Bitumen Products are sourced from Best Refineries located in Middle East and South East Asia having State-of-the-art facilities. We have Wide Range of Bitumen Products including, Penetration Bitumen, Performance Bitumen, Viscosity Bitumen, Australian Standard Bitumen, Oxidized Bitumen, Cutback Bitumen, Coat Bitumen and Emulsion Bitumen. We are Leading Exporters and Manufacturers of High Quality Bitumen Grades and Standards which are Compliance with National and International Standards.

01



Premium Quality PENETRATION BITUMEN

Penetration Bitumen is semi hard black material known as Petroleum Grade Bitumen which is produced by blowing hot air into the vacuum bottom.

02



High Quality PERFORMANCE BITUMEN

Performance Grade Bitumen is the Latest Standard of bitumen. It is new method bitumen standard which based on varying temperatures.

03



Premium Quality VISCOSITY BITUMEN

Viscosity Grade Bitumen is mostly used as a Paving Grade and it's suitable for Road Construction and for the Asphalt pavements producing with premier attributes. Viscosity Grade Bitumen is usually used in the production of Hot Mix Asphalt.

04



High Quality

AUSTRALIAN BITUMEN

Classes of Bitumen under the Australian Standard are determined by Viscosity measured at 60°C Pa.s. Other blends using a combination of standard grade bitumen are also available on request.

05



Premium Quality

OXIDIZED BITUMEN

Oxidized Bitumen is produced by blowing hot air into the Penetration Bitumen. This action makes the Bitumen more rubbery than its original formula and it becomes harder.

06



High Quality

CUTBACK BITUMEN

Cutback Bitumen is dissolved in a solvent. Typical solvents include Naptha, Gasoline and Kerosene, White Spirit etc. The type of solvent controls the Curing time while the amount determines the Viscosity of the Cutback Bitumen.

07



Premium Quality

COAT BITUMEN

The Bitumen Coatings are also characteristically non-viscous materials which are not thixotropic and are therefore ordinarily applied as thin films.

08



High Quality

EMULSION BITUMEN

Emulsion Bitumen is a Binding material, consisting of Water and Bitumen. Emulsion is a disperse system, with particles of bitumen dispersed in water.

Penetration Bitumen

Exporter and Supplier of Penetration Grade Bitumen

Penetration Bitumen is Semi Hard Black material known as Petroleum Grade Bitumen which is produced by blowing hot air into the vacuum bottom. Penetration Grade Bitumen is mainly used in road surfacing. Bitumen with Lower Penetration Grade is used in the regions with Warm climate while Higher Penetration Grade is used in Cold weather. Tiger Bitumen Company has the capability to Export and Supply the different Grades of Penetration Bitumen in compliance with National and International standards.



Penetration Bitumen 30/40 Specifications

Penetration Grade Bitumen 30/40		
Property	Specifications	Test Method
Penetration @ 25 °C	30/40	D – 5
Softening point °C	55/63	D – 36
Ductility @25 °C	100 Min	D – 113
Loss on heating(wt) %	0.2 Max	D – 6
Flash point °C	250 Min	D – 92
Solubility in CS2(wt) %	99.05 Min	D – 4
Drop in penetration after heating %	20 Max	D – 5
Density @25 °C	1.01/1.06	D – 70 / D – 3289
Spot test	Negative	A.A.S.H.O.T102



Penetration Bitumen 40/50 Specifications

Penetration Grade Bitumen 40/50		
Property	Specifications	Test Method
Penetration @ 25 °C	40/50	D – 5
Softening point °C	52/60	D – 36
Ductility @25 °C	100 Min	D – 113
Loss on heating(wt) %	0.2 Max	D – 6
Flash point °C	250 Min	D – 92
Solubility in CS2(wt) %	99.05 Min	D – 4
Drop in penetration after heating %	20 Max	D – 5
Density @25 °C	1.01/1.06	D – 70 / D – 3289
Spot test	Negative	A.A.S.H.O.T102



Penetration Bitumen 60/70 Specifications

Penetration Grade Bitumen 60/70		
Property	Specifications	Test Method
Penetration @ 25 °C	60/70	D – 5
Specific Gravity @25/25 °C	1.01/1.06	D – 70
Softening Point	48/56	D –36
Ductility @25 °C	100 Min	D – 113
Loss on Heating(wt) %	0.2 Max	D – 6
Drop in Penetration after Heating %	20 Max	D – 6 & D – 5
Flash point °C	240 Min	D –92
Solubility in CS2(wt) % n CS2 (wt)	99.5 Min	D – 4
Spot test	Negative	A.A.S.H.O.T102



Penetration Bitumen 80/100 Specifications

Penetration Grade Bitumen 80/100		
Property	Specifications	Test Method
Penetration @ 25 °C	80/100	D – 5
Softening point °C	45/52	D – 36
Ductility @25 °C	100 Min	D – 113
Loss on heating(wt) %	0.5 Max	D – 6
Flash point °C	225 Min	D – 92
Solubility in CS2(wt) %	99.05 Min	D – 4
Drop in penetration after heating %	20 Max	D – 5
Density @25 °C	1.01/1.06	D – 70 / D – 3289
Spot test	Negative	A.A.S.H.O.T102



Penetration Bitumen 85/100 Specifications

Penetration Grade Bitumen 85/100		
Property	Specifications	Test Method
Penetration @ 25 °C	85/100	D – 5
Specific Gravity @25/25 °C	1.01 – 1.06	D – 70
Softening point °C	43/51	D – 36
Ductility @25 °C	100 Min	D – 113
Loss on heating(wt) %	0.2 Max	D – 6
Drop in Penetration after Heating %	20 Max	D – 6 & D – 5
Flash point °C	240 Min	D – 92
Solubility in CS2(wt) % n CS2 (wt)	99% Min	D – 4



Penetration Bitumen 100/120 Specifications

Penetration Grade Bitumen 100/120		
Property	Specifications	Test Method
Density	04/1–01/1	ASTM D – 7
Penetration Rate at 25 °C	100 – 120	ASTM D – 5
Softening point °C	42 – 49	ASTM D – 36
Ductility 25 °C (cm)	Min 100	ASTM D – 113
Flash point °C	Min 250	ASTM D – 92
Solubility Disulfide % wt.	5/99	ASTM D – 4
Stain Test	Negative	AASHOT T 102
Weight Loss by Heating % Wt.	Max 20	ASTM D – 6
Weight Loss by Heating %	Max 20	ASTM D – 6/ D – 5



Penetration Bitumen 160/220 Specifications

Penetration Grade Bitumen 160/220		
Property	Specifications	Test Method
Penetration @ 25 °C	160/220	D – 5
Softening point °C	35/43	D – 36
Ductility @25 °C	100 Min	D – 113
Loss on heating (wt) %	0.2 Max	D – 6
Flash point °C	250 Min	D – 92
Solubility in CS ₂ (wt) %	99.0 Min	D – 4
Drop in penetration after heating %	20 Max	D – 5
Density @25 °C	1.01/1.06	D – 70 / D – 3289
Spot test	Negative	A.A.S.H.O.T102

COMMITTED

Supplier of
Penetration Grade
Bitumen

Performance Grades Bitumen

PG 52, PG 58, PG 64, PG 70 and PG-76

Performance Grade Bitumen is the Latest Standard of bitumen. It is new method bitumen standard which based on varying temperatures. This method studies the mechanical specifications of bitumen. Since in this method, a temperature range is defined for bitumen, the consumer can easily choose the desired product. Performance Grade is determined for polymer modified bitumen and pure bitumen based on environmental conditions and temperature. The wider PG Grades Range the higher resistance and more favorable specifications.



Performance Grade PG 52-10 Bitumen Specifications

Performance Grade Bitumen PG 52-10

Property	PG 52 -10	Test Method
Average 7-day maximum pavement Design Temperature, °C	52	
minimum pavement Design Temperature, °C	> -10	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	52	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	52	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	90	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	25	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	0	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	0	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	0	AASHTO PP42





Performance Grade PG 52-16 Bitumen Specifications

Performance Grade Bitumen PG 52-16		
Property	PG 52 - 16	Test Method
Average 7-day maximum pavement Design Temperature, °C	52	
minimum pavement Design Temperature, °C	> -16	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	52	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	52	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	90	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	22	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-6	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-6	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-6	AASHTO PP42

Performance Grade PG 52-22 Bitumen Specifications



Performance Grade Bitumen PG 52-22		
Property	PG 52 – 22	Test Method
Average 7-day maximum pavement Design Temperature, °C	52	
minimum pavement Design Temperature, °C	> -22	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	52	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	52	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	90	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	19	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-12	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-12	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-12	AASHTO PP42

Performance Grade PG 58-10 Bitumen Specifications



Performance Grade Bitumen PG 58-10		
Property	PG 58 -10	Test Method
Average 7-day maximum pavement Design Temperature, °C	58	
minimum pavement Design Temperature, °C	> -10	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	58	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	58	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	28	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	0	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	0	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	0	AASHTO PP42

Performance Grade PG 58-16 Bitumen Specifications



Performance Grade Bitumen PG 58-16		
Property	PG58 – 16	Test Method
Average 7-day maximum pavement Design Temperature, °C	58	
minimum pavement Design Temperature, °C	> -16	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	58	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	58	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	25	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-6	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-6	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-6	AASHTO PP42

Performance Grade PG 58-22 Bitumen Specifications



Performance Grade Bitumen PG 58-22		
Property	PG 58 -22	Test Method
Average 7-day maximum pavement Design Temperature, °C	58	
minimum pavement Design Temperature, °C	> -22	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	58	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	58	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	22	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-12	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-12	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-12	AASHTO PP42

Performance Grade PG 64-10 Bitumen Specifications



Performance Grade Bitumen PG 64-10		
Property	PG 64-10	Test Method
Average 7-day maximum pavement Design Temperature, °C	64	
minimum pavement Design Temperature, °C	> -10	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	64	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	64	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	31	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	0	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	0	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	0	AASHTO PP42



Performance Grade PG 64-16 Bitumen Specifications

Performance Grade Bitumen PG 64-16		
Property	PG 64-16	Test Method
Average 7-day maximum pavement Design Temperature, °C	64	
minimum pavement Design Temperature, °C	> -16	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	64	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	64	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	28	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-6	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-6	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-6	AASHTO PP42

Performance Grade PG 64-22 Bitumen Specifications



Performance Grade Bitumen PG 64-22		
Property	PG 64 -22	Test Method
Average 7-day maximum pavement Design Temperature, °C	64	
minimum pavement Design Temperature, °C	> -22	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	64	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	64	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	25	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-12	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-12	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-12	AASHTO PP42

Performance Grade PG 70-10 Bitumen Specifications



Performance Grade Bitumen PG 70-10		
Property	PG 70 - 10	Test Method
Average 7-day maximum pavement Design Temperature, °C	<70	
minimum pavement Design Temperature, °C	> -10	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	70	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	70	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100(110)	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	34	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	0	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	0	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	0	AASHTO PP42

Performance Grade PG 70-16 Bitumen Specifications



Performance Grade Bitumen PG 70-16		
Property	PG 70 - 16	Test Method
Average 7-day maximum pavement Design Temperature, °C	<70	
minimum pavement Design Temperature, °C	> -16	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	70	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	70	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100(110)	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	31	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	-6	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	-6	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	-6	AASHTO PP42

Performance Grade PG 76-10 Bitumen Specifications



Performance Grade Bitumen PG 76-10		
Property	PG 76-10	Test Method
Average 7-day maximum pavement Design Temperature, °C	<76	
minimum pavement Design Temperature, °C	> -10	
Original Binder		
Flash Point Temperature Minimum °C	230	AASHTO T48
Viscosity maximum 3 Pa.s, Test Temperature, °C	135	AASHTO T316
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, °C	76	AASHTO T315
Rolling Thin Film Oven Test		AASHTO T240
Mass change maximum percent	1.00	
Dynamic Shear G*/sin minimum 2.2 KPa Test Temperature, @ 10 rad/s °C	76	AASHTO T315
Pressure Aging Vessel		AASHTO R28
PAV aging Temperature, °C	100(110)	
Dynamic Shear G*/sin maximum 5000 KPa Test Temperature, @ 10 rad/s °C	37	AASHTO T315
Creep Stiffness S maximum 300 Mpa m-value minimum 0.300 Test Temperature, @ 60s °C	0	AASHTO T313
Direct Tension Failure strain minimum 1 % Test Temperature @ 1mm/min, °C	0	AASHTO T314
Critical low cracking Temperature Critical cracking determined by PP42 Test Temperature	0	AASHTO PP42

Viscosity Grades Bitumen

VG-10, VG-20, VG-30 and VG-40

Viscosity Grade Bitumen is mostly used as a Paving Grade and it's suitable for Road Construction and for the Asphalt pavements producing with premier attributes. Viscosity Grade Bitumen is usually used in the production of Hot Mix Asphalt.

Viscosity Grade Bitumen has a thermoplastic feature which causes the material to Soften at High temperatures and to Harden at Lower temperatures. This temperature viscosity relevance is significant when specifying the performance parameters such as the adhesion, rheology, durability and application temperatures of bitumen. In the Viscosity Grade Bitumen Specifications, the most important emphasizes is based on the Bitumen ductility.



Viscosity Grade VG-10 Bitumen Specifications

Viscosity Grade Bitumen VG-10			
Specifications	Acceptable Range	Test Method	Explanations
Absolute Viscosity	Min 800	ASTM – D4402	at 60°C, Poises
Kinematic Viscosity	Min 250	ASTM – D4402	at 135°C, c.st
Solubility	99.0 Min	ASTM – D2042	in CCL4, %
Flash Point	220 Min	ASTM – D92	°C
Penetration	80-100	ASTM – D5	at 25°C, mm/10
Softening Point	Min 40	ASTM – D36	°C
Test on Reside Form Thin Film Oven Test (T.F.O.T)			
Ratio Viscosity	Max 4.0	ASTM – D4402	at 60°C, %
Ductility	Min 75	ASTM – D113	at 25°C, cm





Viscosity Grade VG-20 Bitumen Specifications

Viscosity Grade Bitumen VG-20			
Specifications	Acceptable Range	Test Method	Explanations
Absolute Viscosity	Min 1600	ASTM – D4402	at 60°C, Poises
Kinematic Viscosity	Min 300	ASTM – D4402	at 135°C, c.st
Solubility	99.0 Min	ASTM – D2042	in CCL4, %
Flash Point	220 Min	ASTM – D92	°C
Penetration	60-80	ASTM – D5	at 25°C, mm/10
Softening Point	Min 45	ASTM – D36	°C
Test on Reside Form Thin Film Oven Test (T.F.O.T)			
Ratio Viscosity	Max 4.0	ASTM – D4402	at 60°C, %
Ductility	Min 50	ASTM – D113	at 25°C, cm



Viscosity Grade VG-30 Bitumen Specifications

Viscosity Grade Bitumen VG-30			
Specifications	Acceptable Range	Test Method	Explanations
Absolute Viscosity	Min 2400	ASTM – D4402	at 60°C, Poises
Kinematic Viscosity	Min 350	ASTM – D4402	at 135°C, c.st
Solubility	99.0 Min	ASTM – D2042	in CCL4, %
Flash Point	220 Min	ASTM – D92	°C
Penetration	50-70	ASTM – D5	at 25°C, mm/10
Softening Point	Min 47	ASTM – D36	°C
Test on Reside Form Thin Film Oven Test (T.F.O.T)			
Ratio Viscosity	Max 4.0	ASTM – D4402	at 60°C, %
Ductility	Min 40	ASTM – D113	at 25°C, cm



Viscosity Grade VG-40 Bitumen Specifications

Viscosity Grade Bitumen VG-40			
Specifications	Acceptable Range	Test Method	Explanations
Absolute Viscosity	Min 3200	ASTM – D4402	at 60°C, Poises
Kinematic Viscosity	Min 400	ASTM – D4402	at 135°C, c.st
Solubility	99.0 Min	ASTM – D2042	in CCL4, %
Flash Point	220 Min	ASTM – D92	°C
Penetration	40-60	ASTM – D5	at 25°C, mm/10
Softening Point	Min 50	ASTM – D36	°C
Test on Reside Form Thin Film Oven Test (T.F.O.T)			
Ratio Viscosity	Max 4.0	ASTM – D4402	at 60°C, %
Ductility	Min 25	ASTM – D113	at 25°C, cm



Viscosity Grade AC-2.5 Bitumen Specifications

Viscosity Grade AC-2.5 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	250± 50	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	80	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	200	ASTM D-5
Flash point, Cleveland open cup, Min	°C	163	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	1250	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	(1)100	ASTM – D113



Viscosity Grade AC-5 Bitumen Specifications

Viscosity Grade AC-5 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	500± 100	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	110	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	120	ASTM D-5
Flash point, Cleveland open cup, Min	°C	177	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	2500	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	100	ASTM – D113



Viscosity Grade AC-10 Bitumen Specifications

Viscosity Grade AC-10 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	1000± 200	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	150	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	70	ASTM D-5
Flash point, Cleveland open cup, Min	°C	219	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	5000	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	50	ASTM – D113



Viscosity Grade AC-20 Bitumen Specifications

Viscosity Grade AC-20 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	2000± 400	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	210	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	40	ASTM D-5
Flash point, Cleveland open cup, Min	°C	232	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	10000	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	20	ASTM – D113



Viscosity Grade AC-30 Bitumen Specifications

Viscosity Grade AC-30 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	3000± 600	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	250	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	30	ASTM D-5
Flash point, Cleveland open cup, Min	°C	232	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	15000	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	15	ASTM – D113



Viscosity Grade AC-40 Bitumen Specifications

Viscosity Grade AC-40 Bitumen Specifications			
Properties	Units	Specifications	Test Method
Viscosity, 140°F (60°C)	P	4000± 800	ASTM D-2171
Viscosity, 275°F (135°C), Min	cSt	300	ASTM D-2171
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	20	ASTM D-5
Flash point, Cleveland open cup, Min	°C	232	ASTM D-92
Solubility in trichloroethylene, Min	%Wt.	99	ASTM D-2042
Tests on residue from thin-film oven test:			
– Viscosity, 140°F (60°C), Max	P	20000	ASTM D-2171
– Ductility, 77°F (25°C), 5cm/min, Min	CM	10	ASTM – D113



Viscosity Grade AR-1000 Bitumen Specifications

Viscosity Grade AR-1000 Bitumen Specifications		
Property	Units	Specification
Viscosity, 140°F (60°C)	p	1000± 200
Viscosity, 275°F (135°C), Min	cSt	140
Penetration, 77°F (25°C), 100g, 5sec	0.1 MM	65
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	—
Ductility at 25°C, cm, min	CM	100
Tests on original asphalt		
Flash point, °C, min	°C	205
Solubility in Trichloroethylene, %, min	%Wt	99



Viscosity Grade AR-2000 Bitumen Specifications

Viscosity Grade AR-2000 Bitumen Specifications		
Property	Units	Specification
Viscosity, 140°F (60°C)	p	2000± 500
Viscosity, 275°F (135°C), Min	cSt	200
Penetration, 77°F (25°C), 100g, 5sec	0.1 MM	40
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	40
Ductility at 25°C, cm, min	CM	100
Tests on original asphalt		
Flash point, °C, min	°C	219
Solubility in Trichloroethylene, %, min	%Wt	99



Viscosity Grade AR-4000 Bitumen Specifications

Viscosity Grade AR-4000 Bitumen Specifications		
Property	Units	Specification
Viscosity, 140°F (60°C)	p	4000± 1000
Viscosity, 275°F (135°C), Min	cSt	275
Penetration, 77°F (25°C), 100g, 5sec	0.1 MM	25
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	45
Ductility at 25°C, cm, min	CM	75
Tests on original asphalt		
Flash point, °C, min	°C	227
Solubility in Trichloroethylene, %, min	%Wt	99



Viscosity Grade AR-8000 Bitumen Specifications

Viscosity Grade AR-8000 Bitumen Specifications		
Property	Units	Specification
Viscosity, 140°F (60°C)	p	8000± 2000
Viscosity, 275°F (135°C), Min	cSt	400
Penetration, 77°F (25°C), 100g, 5sec	0.1 MM	20
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	50
Ductility at 25°C, cm, min	CM	75
Tests on original asphalt		
Flash point, °C, min	°C	232
Solubility in Trichloroethylene, %, min	%Wt	99



Viscosity Grade AR-16000 Bitumen Specifications

Viscosity Grade AR-16000 Bitumen Specifications		
Property	Units	Specification
Viscosity, 140°F (60°C)	p	16000± 4000
Viscosity, 275°F (135°C), Min	cSt	550
Penetration, 77°F (25°C), 100g, 5sec	0.1 MM	20
Penetration, 77°F (25°C), 100g, 5sec, Min	0.1 MM	52
Ductility at 25°C, cm, min	CM	75
Tests on original asphalt		
Flash point, °C, min	°C	238
Solubility in Trichloroethylene, %, min	%Wt	99

Australian Standard Bitumen

Class 170 – Class 320 and Class 600

All Australian Standard Bitumen Grades of Class 170, Class 320 and Class 600, are available from Tiger Bitumen Company. Classes of Bitumen under the Australian Standard are determined by Viscosity measured at 60°C Pa.s. Other blends using a combination of standard grade bitumen are also available on request. Australian Bitumen Grades are available in 185Kg New Steel Drums and Shipping in 20'ft Containers to Worldwide Destinations.



Australian Standard Class-170 Bitumen Specifications

Australian Standard Bitumen Class-170	
Property	Value
Viscosity at 60°C , pa.s	170
Viscosity at 135°C Pa.s	0.40
Viscosity at 60°C after RTFO, Pa.s	300
Penetration at 25oC, dmm	70
Flashpoint, °C	360
Viscosity of Residue at 60°C % of original	180
Density at 15°C , kg/m3	1.04



Australian Standard Class-320 Bitumen Specifications

Australian Standard Bitumen Class-320	
Property	Value
Viscosity at 60°C , pa.s	320
Viscosity at 135°C Pa.s	0.53
Viscosity at 60°C after RTFO, Pa.s	640
Penetration at 25°C , dmm	46
Flashpoint, °C	360
Viscosity of Residue at 60°C % of original	200
Density at 15°C , kg/m3	1.04



Australian Standard Class-600 Bitumen Specifications

Australian Standard Bitumen Class-600	
Property	Value
Viscosity at 60°C , pa.s	600
Viscosity at 135°C Pa.s	0.80
Viscosity at 60°C after RTFO, Pa.s	1300
Penetration at 25°C , dmm	27
Flashpoint, °C	360
Viscosity of Residue at 60°C % of original	215
Density at 15°C , kg/m3	1.04



Oxidized Bitumen

Exporter and Supplier of Oxidized Grade Bitumen

Oxidized Bitumen is produced by blowing hot air into the Penetration Bitumen. This action makes the Bitumen more rubbery than its original formula and it becomes Harder Bitumen. Oxidized Bitumen recovers the weight loss under heating. Due to low thermal sensitivity, the Softening Point is much Higher than Regular Bitumen and the Penetration index (PI) is Higher than Road Construction Bitumen ($8 > PI > 2$) due to the latter has a Gel-Like structure because of Asphalt accumulation. Oxidized Bitumen is mostly used in Industry, such as Roof Insulation, Flooring, Industrial Mastic, Pipe Coating, and Paints. Specifications of Oxidized bitumen are categorized based on Softening points and Penetration rate. Tiger Bitumen Company has the capability to Export and Supply the different Grades of Oxidized Bitumen in compliance with National and International standards.



Oxidized Bitumen 85/25 Specification

Property	Specifications	Test Method
Softening Point (°C)	85±5	ASTM D36
Penetration at 25°C	25±5	ASTM D5
Thermal Loss %	0.2	ASTM D1754
Solubility in trichloroethylene	99.5	ASTM D2042

Oxidized Bitumen 95/25 Specification

Property	Specifications	Test Method
Softening Point (°C)	95±5	ASTM D36
Penetration at 25°C	25±5	ASTM D5
Thermal Loss %	0.2	ASTM D1754
Solubility in trichloroethylene	99.5	ASTM D2042

Oxidized Bitumen 115/15 Specification

Property	Specifications	Test Method
Softening Point (°C)	115±5	ASTM D36
Penetration at 25°C	15±5	ASTM D5
Thermal Loss %	0.2	ASTM D1754
Solubility in trichloroethylene	99.5	ASTM D2042

Cutback Bitumen



Slow Curing – Medium Curing – Rapid Curing

Cutback Bitumen is dissolved in a solvent. Typical solvents include Naptha, Gasoline and Kerosene, White Spirit etc. The type of solvent controls the Curing time while the amount determines the Viscosity of the Cutback Bitumen. This is done to reduce the Viscosity of the Bitumen temporarily so it can penetrate pavements more effectively or to allow spraying at temperatures that are too cold for successful sprayed sealing with neat bitumen. The materials used to cutback bitumen will evaporate after application to leave the remaining material similar in hardness to the original bitumen.

Cutback Bitumen Classifications

Cutback Bitumen is divided into three classifications, Slow-Curing (SC), Rapid-Curing (RC) and Medium-Curing (MC) depending on the solvent used. They are further defined by Grades which indicates the minimum kinematic viscosity (fluidity) of the cutback.



SLOW CURRING

- SC-30
- SC-70
- SC-250
- SC-800
- SC-3000

Slow Curing (SC) asphalt cement and oils of low volatility generally in the heavy distillate range (SC-30, SC-70, SC-250, SC-800 and SC-3000). The degree of liquidity developed in each case depends principally on the proportion of solvent to asphalt cement. To a minor degree, the liquidity of the Cutback may be affected by the hardness of the base asphalt from which the Cutback is made. The degree of fluidity results in several Grades of Cutback asphalt—some quite fluid at ordinary temperatures and others somewhat more viscous. The more viscous grades may require a small amount of heating to make them fluid enough for construction operations.

Slow Curing (SC) Cutback asphalts are often called road oils and are used primarily in road-mixing and dust-laying applications. This term originated in earlier days when asphalt residual oil was used to give roads a low-cost, all-weather surface. SC Cutback asphalts are also used for stockpile patching mixes, plant-mixed with graded aggregates and occasionally for priming.



Bitumen Cutback Slow Curing SC-30 Specifications

Slow Curing SC-30 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	30	60	ASTM D2170
Flash Point (Tag Open-Cup),°C	60	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
Total Distillation Up To 360°C, Volume%	10	45	ASTM D402
Solubility In Trichloroethylene,%	99	–	ASTM D2042
Viscosity At 60°C	250	5000	ASTM D2171
Test On Residue From Distillation:			
Penetration At 100%	50	–	ASTM D5
Ductility At 25°C	100	–	ASTM D113



Bitumen Cutback Slow Curing SC-70 Specifications

Slow Curing SC-70 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	70	140	ASTM D2170
Flash Point (Tag Open-Cup),°C	66	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
Total Distillation Up To 360°C, Volume%	10	30	ASTM D402
Solubility In Trichloroethylene,%	99	–	ASTM D2042
Viscosity At 60°C	400	7000	ASTM D2171
Test On Residue From Distillation:			
Penetration At 100%	50	–	ASTM D5
Ductility At 25°C	100	–	ASTM D113



Bitumen Cutback Slow Curing SC-250 Specifications

Slow Curing SC-250 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	250	500	ASTM D2170
Flash Point (Tag Open-Cup),°C	79	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
Total Distillation Up To 360°C, Volume%	4	20	ASTM D402
Solubility In Trichloroethylene,%	99	–	ASTM D2042
Viscosity At 60°C	800	10000	ASTM D2171
Test On Residue From Distillation:			
Penetration At 100%	60	–	ASTM D5
Ductility At 25°C	100	–	ASTM D113



Bitumen Cutback Slow Curing SC-800 Specifications

Slow Curing SC-800 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	800	1600	ASTM D2170
Flash Point (Tag Open-Cup),°C	93	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
Total Distillation Up To 360°C, Volume%	2	12	ASTM D402
Solubility In Trichloroethylene,%	99	–	ASTM D2042
Viscosity At 60°C	2000	16000	ASTM D2171
Test On Residue From Distillation:			
Penetration At 100%	70	–	ASTM D5
Ductility At 25°C	100	–	ASTM D113



Bitumen Cutback Slow Curing SC-3000 Specifications

Slow Curing SC-3000 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	3000	6000	ASTM D2170
Flash Point (Tag Open-Cup),°C	107	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
Total Distillation Up To 360°C, Volume%	–	5	ASTM D402
Solubility In Trichloroethylene,%	99	–	ASTM D2042
Viscosity At 60°C	4000	35000	ASTM D2171
Test On Residue From Distillation:			
Penetration At 100%	80	–	ASTM D5
Ductility At 25°C	100	–	ASTM D113

MEDIUM CURRING

- MC-30
- MC-70
- MC-250
- MC-800
- MC-3000

Medium Curing (MC) asphalt cement uses medium diluents of intermediate volatility generally in the kerosene boiling point range (MC-30, MC-70, MC-250, MC-800 and MC-3000).

The degree of liquidity developed in each case depends principally on the proportion of solvent to asphalt cement. To a minor degree, the liquidity of the cutback may be affected by the hardness of the base asphalt from which the cutback is made. The degree of fluidity results in several Grades of Cutback asphalt—some quite fluid at ordinary temperatures and others somewhat more viscous. The more viscous grades may require a small amount of heating to make them fluid enough for construction operations.

The Medium Setting Grades are designed for mixing with aggregates. Because these grades do not break immediately upon contact with aggregate, mixes using them can remain workable for extended periods of time and lend themselves to cold mix stockpiles.



Bitumen Cutback Medium Curing MC-30 Specifications

Medium Curing Mc-30 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	30	60	ASTM D2170
Flash Point (Tag Open-Cup),°C	38	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 225°C	–	35	ASTM D402
To : 260°C	30	75	ASTM D402
To : 316°C	75	93	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	50	–	ASTM D402
Test On Residue From Distillation:			
Penetration At 25°C	120	300	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042

Bitumen Cutback Medium Curing MC-70 Specifications



Rapid Curing Rc-70 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	70	140	ASTM D2170
Flash Point (Tag Open-Cup),°C	–	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 190°C	10	–	ASTM D402
To : 225°C	50	–	ASTM D402
To : 260°C	70	–	ASTM D402
To : 316°C	85	–	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	55	–	ASTM D402
Test On Residue From Distillation:			
Viscosity At 60°C	60	240	ASTM D5
Penetration At 25°C	80	120	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042

Bitumen Cutback Medium Curing MC-250 Specifications



Medium Curing Mc-250 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	250	500	ASTM D2170
Flash Point (Tag Open-Cup),°C	66	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 225°C	–	20	ASTM D402
To : 260°C	5	55	ASTM D402
To : 316°C	60	90	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	67	–	ASTM D402
Test On Residue From Distillation:			
Penetration At 25°C	120	300	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042
Water, %	–	0.2	ASTM D95



Bitumen Cutback Medium Curing MC-800 Specifications

Medium Curing Mc-800 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	800	1600	ASTM D2170
Flash Point (Tag Open-Cup),°C	66	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 225°C	–	–	ASTM D402
To : 260°C	–	40	ASTM D402
To : 316°C	45	85	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	75	–	ASTM D402
Test On Residue From Distillation:			
Penetration At 25°C	120	250	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042
Water, %	–	0.2	ASTM D95



Bitumen Cutback Medium Curing MC-3000 Specifications

Medium Curing Mc-3000 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	3000	6000	ASTM D2170
Flash Point (Tag Open-Cup),°C	66	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 225°C	–	–	ASTM D402
To : 260°C	–	15	ASTM D402
To : 316°C	15	75	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	80	–	ASTM D402
Test On Residue From Distillation:			
Penetration At 25°C	120	250	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042
Water, %	–	0.2	ASTM D95

RAPID CURRING

- RC-30
- RC-70
- RC-250
- RC-800
- RC-3000

Rapid Curing (RC) asphalt cement is a combination of light diluents of high volatility, generally in the gasoline or naphtha boiling point range (RC-30, RC-70, RC-250, RC-800 and RC-3000), and asphalt cement.

The degree of liquidity developed in each case depends principally on the proportion of solvent to asphalt cement. To a minor degree, the liquidity of the cutback may be affected by the hardness of the base asphalt from which the cutback is made. The degree of fluidity results in several Grades of Cutback asphalt—some quite fluid at ordinary temperatures and others somewhat more viscous. The more viscous grades may require a small amount of heating to make them fluid enough for construction operations.

The Rapid-Setting Grades are designed to react quickly primarily for spray applications, such as bond/tack coats, aggregate chips seals, sand seals and similar surface treatments.

Bitumen Cutback Rapid Curing RC-30 Specifications



Rapid Curing Rc-30 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic 1 Viscosity At 60°C, Est	30	60	ASTM D2170
Flash Point (Tag Open-Cup),°C	–	–	ASTM D1310
Distillate Test 2:			
Distillate, Percent By Volume Of Total 360°C			
To 190°C	15	–	ASTM D402
To 225°C	55	–	ASTM D402
To 260°C	75	–	ASTM D402
To 316°C	90	–	ASTM D402
Residue From Distillation To 360°C:			
Test On Residue From Distillation Penetration At 25°C,100g, 5 Sec.	80	120	
Ductility 3 At 25°C, Cm	100	–	ASTM D402 / ASTM D113
Solubility In Trichloroethylene, Percent Mass	100	–	ASTM D402 / ASTM D2024
Water, Percent Volume	–	0.2	ASTM D95

Bitumen Cutback Rapid Curing RC-70 Specifications



Rapid Curing Rc-70 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic 1 Viscosity At 60°C, Est	70	140	ASTM D2170
Flash Point (Tag Open-Cup),°C	–	–	ASTM D1310
Distillate Test 2:			
Distillate, Percent By Volume Of Total 360°C			
To 190°C	10	–	ASTM D402
To 225°C	50	–	ASTM D402
To 260°C	–	–	ASTM D402
To 316°C	85	–	ASTM D402
Residue From Distillation To 360°C:			
Test On Residue From Distillation Penetration At 25°C,100g, 5 Sec.	55	–	
Ductility 3 At 25°C, Cm	80	120	ASTM D402 / ASTM D113
Solubility In Trichloroethylene, Percent Mass	100	–	ASTM D402 / ASTM D2024
Water, Percent Volume	–	0.2	ASTM D95

Bitumen Cutback Rapid Curing RC-250 Specifications



Rapid Curing Rc-250 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	250	500	ASTM D2170
Flash Point (Tag Open-Cup),°C	27	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 190°C	–	–	ASTM D402
To : 225°C	35	–	ASTM D402
To : 260°C	60	–	ASTM D402
To : 316°C	80	–	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	65	–	ASTM D402
Test On Residue From Distillation:			
Viscosity At 60°C	60	240	ASTM D5
Penetration At 25°C	80	120	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042

Bitumen Cutback Rapid Curing RC-800 Specifications



Rapid Curing Rc-800 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	800	1600	ASTM D2170
Flash Point (Tag Open-Cup),°C	27	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 190°C	–	–	ASTM D402
To : 225°C	15	–	ASTM D402
To : 260°C	45	–	ASTM D402
To : 316°C	75	–	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	75	–	ASTM D402
Test On Residue From Distillation:			
Viscosity At 60°C	60	240	ASTM D5
Penetration At 25°C	80	120	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042

Bitumen Cutback Rapid Curing RC-3000 Specifications



Rapid Curing Rc-3000 Bitumen Cutback			
Property	Min	Max	Test Method
Kinematic Viscosity At 60°C Mm ² /S	3000	6000	ASTM D2170
Flash Point (Tag Open-Cup),°C	27	–	ASTM D3143
Distillate Test: Distillate, Volume Percent Of Total Distillate At 360°C:			
To : 190°C	–	–	ASTM D402
To : 225°C	–	–	ASTM D402
To : 260°C	25	–	ASTM D402
To : 316°C	70	–	ASTM D402
Residue From Distillation To 360°C, Percent Volume By Difference	80	–	ASTM D402
Test On Residue From Distillation:			
Viscosity At 60°C	60	240	ASTM D5
Penetration At 25°C	80	120	ASTM D5
Ductility At 25°C	100	–	ASTM D113
Solubility In Trichloroethylene, %	99	–	ASTM 2042

Coat Bitumen

Primer – Mastic – Enamel

Bitumen coating compositions having substantially improved application and drying properties and producing coatings of improved properties including resistance to ultra violet rays and alligatoring resulting there from, said coating compositions comprising volatile solvent solutions of a bitumen coating material having softening point between 110-f to 250-f. The bitumen coatings are also characteristically non-viscous materials which are not thixotropic and are therefore ordinarily applied as thin films. The bitumen coating compositions may also contain filler materials which tend to settle from the non-thixotropic compositions after storage for only a short time. It has been proposed in the past to add inert colloidal fillers such as silica to obtain thixotropic properties and thicker films on application of the compositions. However, even such inert fillers tend to affect only solution properties and generally exist in the finished coating as an expensive additive which does not benefit other properties of the coating.



Coat Bitumen Primer D-41 Specifications

Coat Bitumen Primer D-41		
Property	Specifications	Test Method
Density. Kg/litre	0.85-0.88	ASTM D-70
Saybolt Furol Viscosity at 250C Seconds	25-125	ASTM D-88
Tack Free time, hour	2hrs at 300 C	–
Distillation, Volume% of the Primer		
Up to 2250C	35 (Min)	ASTM D-402
Up to 3600C	65 (Max)	
Tests on residue from distillation:	20-50	ASTM D-5
Penetration at 250C	99	ASTM D
Solubility in trichloroethylene %		2042
Water Content	0.5 (Max)	ASTM D-95

Coat Bitumen Mastic Specifications

Coat Bitumen Mastic		
Property	Value	
Application Temperature	50°F to 120°F (10°C to 49°C)	
Solids by Weight	63%	
Thickness		
Wet Film Thickness (WFT)	30 mils (762 microns) min.	
Dry Film Thickness (DFT)	20 mils (508 microns) min	
Theoretical Coverage		
20 mils (DFT)	52 ft ² /gallon (4.8 m ² /liter)	
30 mils (DFT)	39 ft ² /gallon (3.6 m ² /liter)	
40 mils (DFT)	26 ft ² /gallon (2.4 m ² /liter)	
Mix Ratio	Single Package	
Flash Point	100°F (38°C)	
Drying Time		Backfill Time
20 mils	2 hours	24 hours
30 mils	2 hours	24 hours
40 mils	2 hours	24 hours
Resistance to Salts & Alkalies	Excellent	
Resistance to Water	Excellent	
Resistance to Oils, Greases & Solvents	Poor	
Service Temperature	0°F to 150°F (-18°C to 65°C)	

Coat Bitumen Enamel Grade A, Band C Specifications

Coat Bitumen Enamel Grade A, B and C				
Property	Grade A	Grade B	Grade C	Test Method
Filler Content, by Ignition	25 – 35	25 – 35	45 – 55	BS 4147: App. B
Density @ 25°C, g/cm ³	1.2 – 1.4	1.2 – 1.4	1.4 – 1.65	BS 4147
Softening Point (ring & bell)	100 – 120	115 – 130	120 – 150	BS 2000 Part 58
Penetration @ 25°C, 10 – 1mm	10 – 20	5 – 17	5 – 15	BS 2000: Part 49
Flash Point (Cleveland Open Cup)	250	260	260	BS 4689
Sa g, Max, Min @60°C, 24h @75°C, 24h	Max. 1.5 –	Max. 1.5 –	Max. 1.5 –	BS 4147: App. E –
Bend @ 0°C,	Min 20	Min 15	Min 10	BS 4147: App. F
Peel Initial & Delayed, Max; mm @30°C @40°C @50°C @60°C	– – 3.0 3.0 3.0 3.0	– – 3.0 3.0 3.0 3.0	– – – 3.0 3.0 3.0	BS 4147: – 3.0 3.0 3.0 3.0
Impact, Disbanded	–	–	–	BS 4147: App. G

Emulsion Bitumen



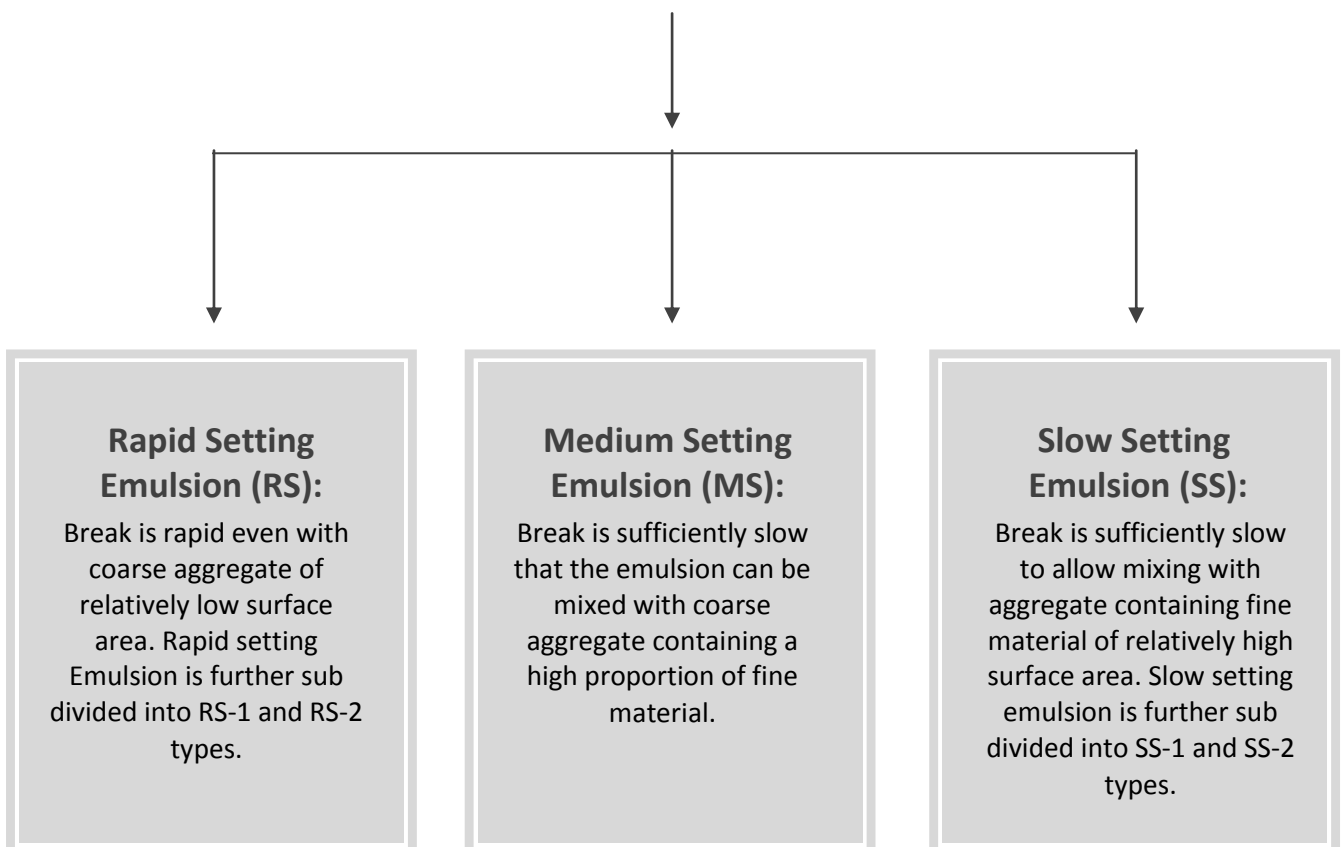
Cationic Bitumen Emulsion – Anionic Bitumen Emulsion

Emulsion Bitumen is a Binding material, consisting of Water and Bitumen. Emulsion is a disperse system, with particles of bitumen dispersed in water. The main task is to keep bitumen micro particles from coalescing, which maintains physicochemical properties of the emulsion and its quality. This stability is achieved with special emulsifiers. Bitumen Emulsions are transportable, easily stored materials. They are kept in the storage warehouses in cylindrical containers at plus temperatures for up to several months, without losing their properties.

All stabilizers/emulsifiers are supplied at exact doses, since they strongly affect characteristics of the finished product. Latex polymers are ideal modifiers and are added to bitumen emulsion to improve properties. Solvents increase the Viscosity and Emulsifying properties.

Emulsion Bitumen Classifications

Emulsions are broadly classified according to the Speed with which they break when contacted with aggregate.





Emulsion Bitumen Exporter and Supplier

Tiger Bitumen Company has the capability to Export and Supply the different Grades of **Cationic Bitumen Emulsion** and **Anionic Bitumen Emulsion** in compliance with National and International standards.



Cationic Emulsion

- SLOW SETTING
- MEDIUM SETTING
- RAPID SETTING
- TACK COAT

Chemical surface-active agents, which serve as Emulsifiers, are classified by the electrochemical charge that is attained when they dissociate in a water solution. In the case of CATIONIC EMULSIONS, the chemical charge is POSITIVE. The chemical type and quantity of surface-active agent used in the manufacturing process governs the process in which the resulting asphalt emulsion can be used.

There are three major classifications of Emulsion Grades: Slow Setting, Medium Setting and Rapid Setting. The terms Rapid, Medium and Slow relate to the amount of time it takes for the Emulsion to cure and the amount of mixing that can be performed before the emulsion breaks. Emulsions that allow the longest mixing time generally take the longest to cure, and emulsions that allow very little mixing time are those that set and cure most rapidly.

Emulsion Cationic Bitumen Slow Setting Specifications

Emulsion Cationic Bitumen Slow Setting CSS-1 and CSS-1H		
PROPERTIES	CSS-1	CSS-1H
Tests on Emulsion	min-max	min-max
Viscosity, SF, 25°C, SFs	20 – 100	20 – 100
Viscosity, SF, 50°C, SFs		
Sieve Test, #20, %	0.1 max	0.1 max
Settlement, 5 days, %	5 max	5 max
Storage Stability, 24h, %		
Demulsibility, 35ml DOSS 0.8%, %		
Cement Mixing Test, %	2 max	2 max
Coating Test, %	80 min	80 min
Residue by Distillation, 260°C, %	57 min	57 min
Oil Portion of Distillate (V/M), %	5 max	5 max
Particle Charge	(+)	(+)
Tests on Residue		
Penetration, 25°C, dmm	100 – 250	40 – 125
Solubility in TCE, %	97.5 min	97.5 min
Ductility, 25°C, cm	60 min	40 min



Emulsion Cationic Bitumen Medium Setting Specifications



Emulsion Cationic Bitumen Medium Setting CMS-2	
PROPERTIES	CMS-2
Tests on Emulsion	min-max
Viscosity, SF, 25°C, SFs	
Viscosity, SF, 50°C, SFs	50-400
Sieve Test, #20, %	0.1 max
Settlement, 5 days, %	5 max
Storage Stability, 24h, %	
Demulsibility, 35ml DOSS 0.8%, %	
Cement Mixing Test, %	
Coating Test, %	80 min
Residue by Distillation, 260°C, %	65 min
Oil Portion of Distillate (V/M), %	10 max
Particle Charge	(+)
Tests on Residue	
Penetration, 25°C, dmm	100 – 250
Solubility in TCE, %	97.5 min
Ductility, 25°C, cm	60 min

Emulsion Cationic Bitumen Rapid Setting Specifications



Emulsion Cationic Bitumen Rapid Setting CRS-1, CRS-1H and CRS-2			
PROPERTIES	CRS-1	CRS-1H	CRS-2
Tests on Emulsion	min-max	min-max	min-max
Viscosity, SF, 25°C, SFs			
Viscosity, SF, 50°C, SFs	50 – 150	20 – 100	100 – 400
Sieve Test, #20, %	0.1 max	0.1 max	0.1 max
Settlement, 5 days, %	5 max		5 max
Storage Stability, 24h, %		1 max	
Demulsibility, 35ml DOSS 0.8%, %	40 min	40 min	40 min
Cement Mixing Test, %			
Coating Test, %			
Residue by Distillation, 260°C, %	62 min	60 min	65 min
Oil Portion of Distillate (V/M), %	3 max	3 max	3 max
Particle Charge	(+)	(+)	(+)
Tests on Residue			
Penetration, 25°C, dmm	100 – 250	40 – 90	100 – 250
Solubility in TCE, %	97.5 min	97.5 min	97.5 min
Ductility, 25°C, cm	60 min	40 min	60 min

Emulsion Cationic Bitumen Tack Coat Specifications

Emulsion Cationic Tack Coat Bitumen K1-30, K1-40, K1-60 and K1-70

PROPERTIES	K1-30	K1-40	K1-60	K1-70	Test Method
Tests on Emulsion	min-max	min-max	min-max	min-max	
Viscosity, SF, 50°C, SFs	20 max	25 max	20 – 100	20 min	ASTM D7496
Sieve Test, #20, %	0.1 max	0.1 max	0.1 max	0.1 max	ASTM D6933
Storage Stability, 24h, %			1 max	1 max	ASTM D6930
Demulsibility, 35ml DOSS 0.8%, %			40 min		ASTM D6936
Residue by Distillation, 260°C, %	30 min	40 min	60 min	67 min	ASTM D6997
Solvent, by volume of emulsion,%			3 max		ASTM D6997
Oil Portion of Distillate (V/M), %				4 max	ASTM D6997
Particle Charge	(+)	(+)	(+)	(+)	ASTM D244
Tests on Residue					
Penetration, 25°C, dmm	60 – 200	60 – 200	100 – 250	60 – 250	ASTM D5
Solubility in TCE, %	97.5 min	97.5 min	97.5 min	97.5 min	ASTM D2042
Ductility, 25°C, cm			40 min	20 min	ASTM D113



Anionic Emulsion

- SLOW SETTING
- MEDIUM SETTING
- RAPID SETTING

Chemical surface-active agents, which serve as Emulsifiers, are classified by the electrochemical charge that is attained when they dissociate in a water solution. In the case of ANIONIC EMULSIONS, the chemical charge is NEGATIVE. The chemical type and quantity of surface-active agent used in the manufacturing process governs the process in which the resulting asphalt emulsion can be used.

There are three major classifications of Emulsion Grades: Slow Setting, Medium Setting and Rapid Setting. The terms Rapid, Medium and Slow relate to the amount of time it takes for the Emulsion to cure and the amount of mixing that can be performed before the emulsion breaks. Emulsions that allow the longest mixing time generally take the longest to cure, and emulsions that allow very little mixing time are those that set and cure most rapidly.

Emulsion Anionic Bitumen Slow Setting Specifications

Emulsion Anionic Bitumen Slow Setting SS-1 and SS-1H		
PROPERTIES	SS-1	SS-1H
Tests on Emulsion	min-max	min-max
Viscosity, SF, 25°C, SFs	20 – 60	20 – 60
Viscosity, SF, 50°C, SFs		
Sieve Test, #20, %	0.1 max	0.1 max
Settlement, 5 days, %	5 max	5 max
Storage Stability, 24h, %		
Demulsibility, 35ml CaCl ₂ 0.02N, %		
Cement Mixing Test, %	2 max	2 max
Coating Test, %	80 min	80 min
Residue by Distillation, 260°C, %	55 min	55 min
Oil Portion of Distillate (V/M), %		
Particle Charge	(–) or 0	(–) or 0
Tests on Residue		
Penetration, 25°C, dmm	100 – 200	40 – 100
Solubility in TCE, %	97.5 min	97.5 min
Ash Content, % mass of res		
Ductility, 25°C, cm Float Test, 60°C, sec	40 min	40 min
Float Test, 60°C, sec		



Emulsion Anionic Bitumen Medium Setting Specifications



Emulsion Anionic Bitumen Medium Setting MS-1, MS-2, MS-4 and MS-5				
PROPERTIES	MS-1	MS-2	MS-4	MS-5
Tests on Emulsion	min-max	min-max	min-max	min-max
Viscosity, SF, 25°C, SFs	20 – 60		50 – 500	50 – 500
Viscosity, SF, 50°C, SFs		35 – 400		
Sieve Test, #20, %	0.1 max	0.1 max	0.1 max	0.1 max
Settlement, 5 days, %	3 max	3 max		
Storage Stability, 24h, %			1 max	1 max
Demulsibility, 35ml CaCl ₂ 0.02N, %				
Cement Mixing Test, %				
Coating Test, %	80 min	80 min	75 min	75 min
Residue by Distillation, 260°C, %	55 min	65 min	65 min	65 min
Oil Portion of Distillate (V/M), %		10 max	2 – 7	0 – 3
Particle Charge	(-)	(-)	(-)	(-)
Tests on Residue				
Penetration, 25°C, dmm	100 – 200	100 – 250	200 min	150 – 250
Solubility in TCE, %	97.5 min	97.5 min	97.5 min	97.5 min
Ash Content, % mass of res				
Ductility, 25°C, cm	40 min	40 min		
Float Test, 60°C, sec			50 min	100 min



Emulsion Anionic Bitumen Rapid Setting Specifications



Emulsion Anionic Bitumen Rapid Setting RS-1, RS-1H and RS-2			
PROPERTIES	RS-1	RS-1H	RS-2
Tests on Emulsion	min-max	min-max	min-max
Viscosity, SF, 25°C, SFs	20 – 100	20 – 100	
Viscosity, SF, 50°C, SFs			75 – 300
Sieve Test, #20, %	0.1 max	0.1 max	0.1 max
Settlement, 5 days, %	3 max		3 max
Storage Stability, 24h, %		1 max	
Demulsibility, 35ml CaCl ₂ 0.02N, %	60 min	60 min	60 min
Cement Mixing Test, %			
Coating Test, %			
Residue by Distillation, 260°C, %	55 min	55 min	60 min
Oil Portion of Distillate (V/M), %			
Particle Charge	(-)	(-)	(-)
Tests on Residue			
Penetration, 25°C, dmm	100 – 200	40 – 90	100 – 200
Solubility in TCE, %	97.5 min	97.5 min	97.5 min
Ash Content, % mass of res			
Ductility, 25°C, cm	60 min		60 min
Float Test, 60°C, sec			



BITUMEN DRUM PACKING

NEW STEEL DRUMS

Bitumen Drum Production

Bitumen Drum Production Line established in 2010 located in a 1000 m2 area, containing two Parallel Drum Manufacturing Lines. Our Experienced Labor is working in 3 Shifts which enable us to provide High Quality Bitumen Packaging Services to our Valued Customers. We use Best Quality Steel Sheets for making of Bitumen Drums.

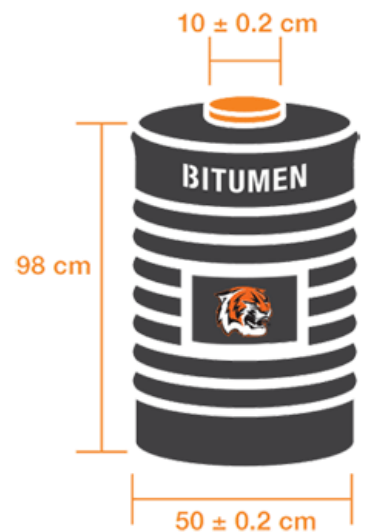
Bitumen Drum Specifications

The Customer's desire Marking will get Printed on New Bitumen Drums.



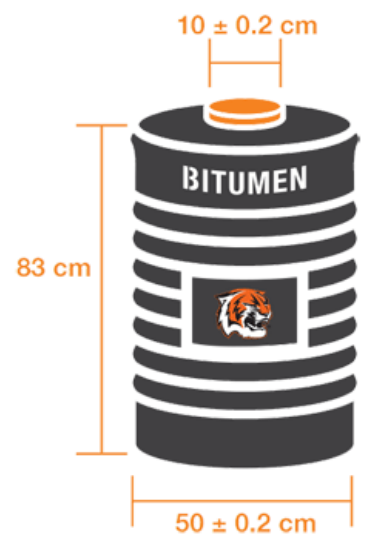
180 Kg New Steel Drum Specifications

Item	Value
Packing in	180 ± 3 kg
Sheet grade	ST-12
Heigh of drum	98 cm
Diameter of drum	50 ± 0.2 cm
Diameter of Lid	10 ± 0.2 cm
Plate thickness (body)	0.6 mm
Plate thickness (top & Bottom)	0.6 mm
Drum Weight	9.3 ± 0.2 kg



150 Kg New Steel Drum Specifications

Item	Value
Packing in	150 ± 3 kg
Sheet grade	ST-12
Heigh of drum	83 cm
Diameter of drum	50 ± 0.2 cm
Diameter of Lid	10 ± 0.2 cm
Plate thickness (body)	0.6 mm
Plate thickness (top & Bottom)	0.6 mm
Drum Weight	8.3 ± 0.2 kg





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