



*...expertise redefined*

# OTR

TIRE  
REPAIR  
PRODUCT  
CATALOGUE  
2018

BLACKSTONE RUBBER INDUSTRIES PVT. LTD  
Tire and Tube Repair Patches & Accessories

# INTRODUCTION AND QUALITY ASSURANCE

Blackstone Rubber is a 50+ years young organization, grown to become one of India's leading tire Repair materials manufacturers. With expertise in tire retreading of almost all sizes of tires, we have developed tire repair materials with high quality, strength, durability and best performance.

With specialization in Nylon and Radial tire patches for all sizes from passenger cars to large OTR / earth mover tires, we are major suppliers to leading retreaders across India.



**Mr. Basant K. Dhoot - Director**

We have expanded the boundaries and have become a renowned and reliable supplier of tire and tube repair materials of high quality standards to the international markets as well.

## OUR MISSION IS

To provide our customers and their customers with excellent products that are premium and guaranteed. We are committed in delivering our products and services efficiently and effectively to ensure Peace of Mind.

In short, to offer "Value for Money".

## OUR VISION IS

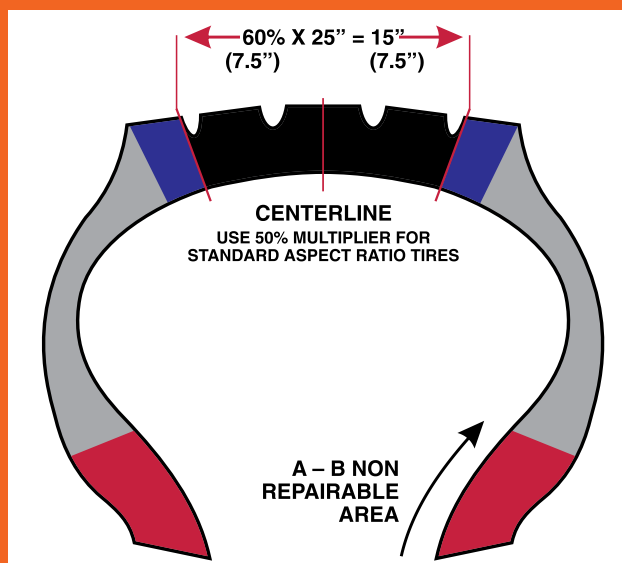
To become the global leader in providing quality products and services to the tire and tube repair industry.

## WARRANTIES

**What Is Covered By This Warranty and Exclusive Remedies:** Blackstone warrants that the product that is the subject of this sale ("product") (a) conforms to our published specifications, and (b) is free from defects in material or workmanship. This warranty extends to the original purchaser only. The duration of this warranty is for one year. The warranty period begins on the date of delivery to the original purchaser. If the purchaser discovers within this period a failure of the product covered by this warranty, he must promptly notify us in writing. We must receive this notice during the warranty period or within thirty (30) days thereafter. Within a reasonable time after such notification, we will provide, at our sole option, either replacement product or refund of the purchase price. The remedies listed in this section are the purchaser's EXCLUSIVE REMEDIES for breach of warranty. Any action for breach of warranty must be commenced within 12 months following delivery of the goods to the original purchaser.

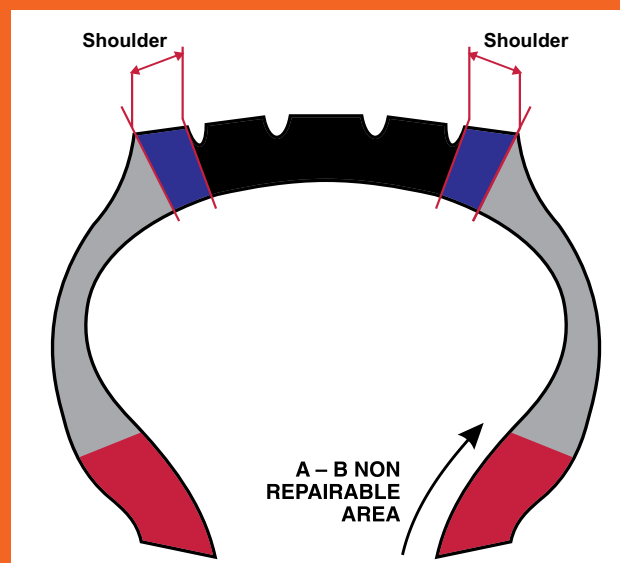
**What Is Not Covered By This Warranty:** Blackstone does not warrant (a) any product, component, or part not manufactured by us, (b) defects or damage caused by failure to provide a suitable environment for the product, (c) defect or damage caused by use of the product for purposes other than those for which it was designed, (d) defect or damage caused by natural or man-made disasters, including but not limited to fire, flood, wind, and lightning, (e) defect or damage caused by unauthorized attachments or modification, (f) damage during shipment, (g) failure to properly maintain product, or (h) any other abuse or misuse of the product.

# OTR TIRES - INJURY DESCRIPTIONS

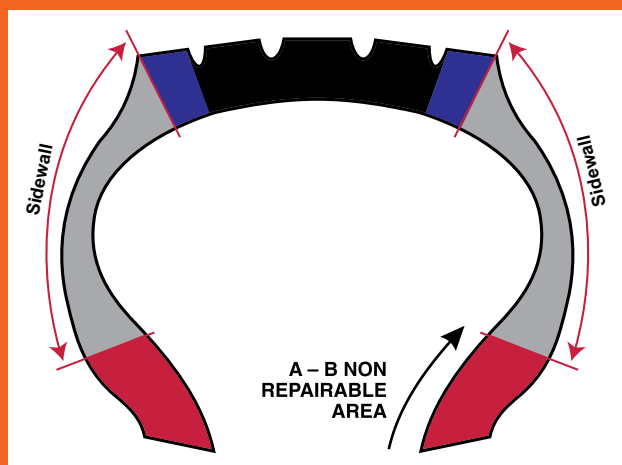


## CROWN INJURY

In standard aspect ratio OTR radial tires 50% of tread face is called "crown". In wide based tires 60% of tread face is considered as "crown". Injury within these areas is considered as crown injury.



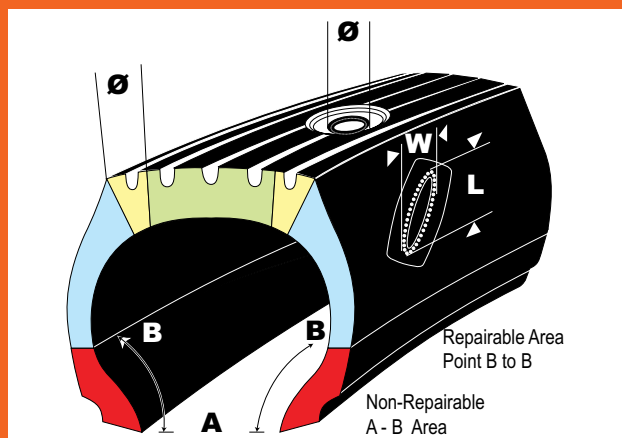
## SHOULDER INJURY



## SIDEWALL INJURY

## RADIAL / OTR NON-REPAIRABLE AREA

14.00-16.00 (15.5-17.5)	3"	75mm
18.00-24.00 (20.5-29.5)	5"	125mm
27.00-33.00 (33.25-37.5)	6"	150mm
40/65-50/65 (40.5)	6 3/4"	170mm
36.00	8"	200mm
37.00-40.00 (50.5 & larger)	10"	255mm



- Crown Injuries can be in Ø or in Length and Width
- Sidewall Injuries will be in Length and Width
- Shoulder Injuries will be in Ø

# RADIAL OTR PATCH SELECTION CHART



Tyre Sizes	Sidewall Injury Size (L X W)		Crown Injury Size			Shoulder Injury	Patch Size BSR/ BSCR
	MM	Inch	Round (Ø) MM (Inch)	Rectangular (L X W) MM	Inch	Size (Ø) MM (Inch)	
11R20, 12R20, 275, 325, 335, 295, 315, 12R 24, 13R 24, 14R 24, 15R 24, 16R - 21R, 23.5, 26.5, 29.5, 22, 25, 30, 32R25	150 40	06 1 5/8	50 (02)	100 50	04 02	30 (1 1/8)	46
	120 60	4 3/4 2 3/8					
	-	-	10 (3/8)	10 10	3/8 3/8	-	25
	-	-	40 (1 5/8)	60 30	2 3/4 1 5/8	-	35
	100 20	4 3/4	30 (1 1/8)	60 30	2 3/8 1 1/8	25 (1)	44
	80 40	3 1/8 1 5/8					
	150 30	6 1 1/8	45 (1 3/8)	90 45	3 1/2 1 3/4	30 (1 1/8)	46
	100 60	4 2 3/8					
	250 40	10 1 5/8	60 (2 3/4)	120 60	4 3/4 2 3/8	35 (1 3/8)	50
	180 60	7 1/8 2 3/8					
	300 70	12 2 3/4	100 (4)	180 100	7 1/8 4	55 (2 1/8)	52
	200 100	8 4					
	-	-	70 (2 3/4)	110 70	4 3/8 2 3/4	-	55
	350 80	13 3/4 3 1/8	130 (5 1/8)	210 130	8 1/4 5 1/8	60 (2 3/8)	56
	250 110	10 4 3/8					
	-	-	100 (4)	150 100	6 4	-	65
18R33, 21R33, 21R35, 24R35, 33.25/ 37.25R33, 26.5R29, 37.5R33, 29.5R35, 37.5R39, 40.5R39, 40R39	-	-	8 (3/8)	8 8	3/8 3/8	-	25
	-	-	35 (1 3/8)	60 30	2 3/8 1 3/8	-	35
	80 20	3 1/8 3/4	25 (1)	50 25	2 1	20 (3/4)	44
	60 40	2 3/8 1 5/8					
	150 30	6 1 1/8	40 (15/8)	80 40	3 1/8 1 5/8	35 (1 3/8)	46
	100 60	4 2 3/8					
	250 40	10 1 5/8	55 (2 1/8)	110 55	4 3/8 2 1/8	35 (1 3/8)	50
	180 60	7 1/8 2 3/8					
	300 60	12 2 3/8	80 (3 1/8)	140 80	5 1/2 3 1/8	55 (2 1/8)	52
	200 80	8 3 1/8					
	-	-	65 (2 1/2)	100 65	4 2 1/2	-	55
	350 60	14 2 3/8	120 (4 3/4)	190 120	7 1/2 4 3/4	60 (2 3/8)	56
	250 100	10 4					
	400 100	16 4	130 (5 1/8)	240 120	9 1/2 5 1/8	65 (2 3/8)	60
	300 130	12 5 1/2					
	480 100	18 7/8 4	140 (5 1/2)	280 140	11 5 1/2	70 (2 3/4)	62
	300 140	12 5 1/2					
	-	-	90 (3 1/2)	140 90	5 1/2 3 1/2	-	65
	300 140	12 5 1/2	150 (6)	220 150	8 5/8 6	80 (3 1/8)	68
	250 150	10 6					
24R49, 27R49, 31R49, 30R51, 33R51, 36R51, 39R53, 27R56.5, 37R57, 40R57, 42R57, 45R57, 50R57	60 10	2 3/8 3/8	20 (3/4)	40 20	1 5/8 3/4	15 (5/8)	44
	50 30	2 1 1/8					
	150 25	6 1	35 (1 3/8)	75 35	3 1 3/8	30 (1 1/8)	46
	100 50	4 2					
	250 35	10 1 3/8	50 (2)	100 50	4 2	35 (1 3/8)	50
	180 50	7 1/8 2					
	250 35	10 1 3/8	50 (2)	100 50	4 2	35 (1 3/8)	50
	180 50	7 1/8 2					
	-	-	60 (2 3/8)	90 60	3 1/2 2 3/8	-	55
	300 50	12 2	110 (4 3/4)	170 110	6 3/4 4 3/8	60 (2 3/8)	56
	200 100	8 4					
	400 80	16 3 1/8	120 (4 3/4)	220 120	8 5/8 4 3/4	65 (2 1/2)	60
	300 120	12 4 3/4					
	480 80	18 7/8 3 1/8	130 (5 1/8)	260 130	10 1/4 5 1/8	70 (2 3/4)	62
	350 120	14 4 3/4					
	-	-	80 (3 1/8)	120 80	4 3/4 3 1/8	-	65
	250 130	10 5 1/8	140 (5 1/2)	200 140	8 5 1/2	80 (3 1/8)	68
	200 140	8 5 1/2					
	-	-	110 (4 3/8)	150 110	6 4 3/8	-	75
	-	-	300 (12)	220 150	8 5/8 6	-	85



# BLACKSTONE OTR REPAIR PRODUCT LINE

Customers have the choice of selecting our repair units, based on their needs. Dual cure and Heat cure repair units can be cured at the customer's plant under ideal conditions of Pressure and Temperature. The ply settings are well positioned and covered with Rubber sheets and Gum strips.

## UNCURED REPAIR PATCHES

Uncured Repair Units must be applied with heat and pressure. They will not chemically cure. These repair units provide maximum adhesion and maximum flexibility during installation. Apply uncured repair units with Black Brush Type Cement in section Mold / Autoclave at  $\geq 260^{\circ}\text{F}$ .



## DUAL CURE REPAIR PATCHES

Dual Cure Repair Units chemically vulcanize at room temperature or when heat and pressure are applied. Dual Cure Repair Units provide many benefits to the tire repairman. Soft and tacky Dual Cure Face Gum fixes the repair unit in place until a full cure occurs. Dual Cure Bonding Gum has over twice the adhesive strength of chemical cure repair units. Apply Dual Cure Repair Units with Fast-Dry Self-Vulcanizing Cement.



## HEAT CURE REPAIR PATCHES

Heat Cure Repair Units must be applied with direct heat and pressure. They will not chemically cure. These repair units provide superior adhesion over chemically cured patches, and equivalent adhesion to uncured patches. Apply with Black Brush Type Cement in curing systems (Section Mold / Autoclave at  $\geq 260^{\circ}\text{F}$ ). Apply with Fast-Dry Cement in curing systems where curing temperature is  $< 250^{\circ}\text{F}$ .



## CHEMICAL CURE REPAIR PATCHES

Chemical Cure Repair units must be used with BS-Chemical Vulcanizing fluid only. They will not cure by Heat and Pressure.




## OTR RADIAL REPAIR PATCH DIMENSIONS

Patch Name	Size in Inches	Size in MM	No. of Plies	No. of units per box
BSCR-42 / BSR-42	4.7/8 x 10.1/2	115 x 220	4	5
BSCR-44 / BSR-44	5 x 13.1/2	125 x 340	4	5
BSCR-45 / BSR-45	9.1/2 x 7.1/2	237 x 187	4	5
BSCR-46 / BSR-46	5.1/2 x 16	140 x 400	4	5
BSCR-50 / BSR-50	7.1/2 x 19	190 x 475	5	3
BSCR-52 / BSR-52	10 x 17.5/8	250 x 440	5	2
BSCR-55 / BSR-55	13 x 10.1/4	330 x 260	5	5
BSCR-56 / BSR-56	10 x 24	250 x 600	7	2
BSCR-60 / BSR-60	10.1/8 x 25.1/8	255 x 625	7	1
BSCR-62 / BSR-62	12.3/4 x 40.1/2	325 x 1030	7	1
BSCR-65 / BSR-65	16.1/2 x 13	420 x 330	6	3
BSCR-68 / BSR-68	30.3/8 x 14	759 x 350	7	1
BSCR-70 / BSR-70	11.3/4 x 20.1/4	295 x 505	5	1
BSCR-72 / BSR-72	11.1/4 x 27.3/4	285 x 695	6	1
BSCR-75 / BSR-75	20.3/4 x 17.3/4	535 x 450	8	3
BSCR-85 / BSR-85	28 x 22	710 x 560	8	1

# BIAS OTR PATCH SELECTION CHART

Crown / Side wall / Shoulder injury



 Injury Size (ø) ↓		Ply Rating of Tire →							
MM.	Inches.	06 to 08	10 to 12	14 to 16	18 to 20	22 to 24	26 to 28	30 to 36	38 over
13	1/2 "	OTR- 1	OTR- 1	OTR- 1	OTR-1	OTR- 2	OTR- 2	OTR- 2	OTR- 3
25	1 "	OTR- 1	OTR- 1	OTR- 1	OTR-1	OTR- 2	OTR- 2	OTR- 2	OTR- 3
40	1 1/2 "	OTR- 2	OTR- 2	OTR- 2	OTR- 2	OTR- 2	OTR- 3	OTR- 3	OTR- 4
50	2 "	OTR- 2	OTR- 2	OTR- 3	OTR- 3	OTR- 3	OTR- 3	OTR- 3	OTR- 4
65	2 1/2 "	OTR- 2	OTR- 2	OTR- 3	OTR- 3	OTR- 3	OTR- 4	OTR- 4	OTR- 4
75	3 "	OTR- 2	OTR- 3	OTR- 4	OTR- 4	OTR- 4	OTR- 5	OTR- 5	OTR- 5
100	4 "		OTR- 3	OTR- 4	OTR- 4	OTR- 5	OTR- 5	OTR- 5	OTR- 6
125	5 "			OTR- 4	OTR- 5	OTR- 6	OTR- 6	OTR- 6	OTR- 6
150	6 "			OTR- 5	OTR- 5	OTR- 7	OTR- 7	OTR- 7	OTR- 7
175	7 "				OTR- 6	OTR- 7	OTR- 7	OTR- 7	OTR- 8
200	8 "					OTR- 8	OTR- 8	OTR- 8	OTR- 8
225	9 "						OTR- 8	OTR- 8	OTR- 9
250	10 "						OTR- 9	OTR- 9	OTR- 9
275	11 "								OTR- 10

## BIAS OTR REPAIR PATCH DIMENSIONS

Patch Name	Size in Inches	Size in MM	No. of Plies	No. of units per box
COTR-1 / OTR-1	7.1/2 x 7.1/2	187 x 187	5	5
COTR-2 / OTR-2	8.1/2 x 8.1/2	212 x 212	6	5
COTR-3 / OTR-3	9.1/2 x 9.1/2	237 x 237	7	5
COTR-4 / OTR-4	11.1/2 x 11.1/2	287 x 287	8	5
COTR-5 / OTR-5	13 x 13	325 x 325	8	5
COTR-6 / OTR-6	15.3/4 x 15.3/4	394 x 394	10	4
COTR-7 / OTR-7	17.1/2 x 17.1/2	438 x 438	11	5
COTR-8 / OTR-8	19.1/2 x 19.1/2	487 x 487	12	2
COTR-9 / OTR-9	21 x 21	525 x 525	14	2
COTR-10 / OTR-10	23 x 23	575 x 575	14	2

# TIRE REPAIR ACCESSORIES

## CUSHION GUM 125°C (260°F)

Natural rubber compound with high tack and workability used in spot repairs, section repairs and reinforce repairs.  
Use with BS- Black Vulcanising Cement.



## FLOATER GUM 125°C (260°F)

Special natural rubber compound with high flex-resistant quality floater gum used along with an EM Patch.  
Use with BS- Black Vulcanising Cement.



## EXTRUDER ROPE 125°C (260°F)

High quality natural rubber compound with excellent extrusion, high adhesion to the tire and easy workability.  
Use with BS- Black Vulcanising Cement.



## HEAT CURE INNER LINER REPAIR GUM

Butyl compound with excellent adhesion to inner liner of Tires.  
Use with BS- Black Vulcanising Cement.



## A & B COMPOUND

Is a 2 part Self Vulcanising natural rubber compound for spot, Bead and Section Repairs. Use With BS SOL Self Vulcanising Cement.



## NYLON FABRIC REINFORCED RUBBER COMPOUND

Used to build reinforced repairs to tires and conveyor Belts.  
Use With BS Black Vulcanising Cement.



# TIRE REPAIR CHEMICALS

## BS SOL CHEMICAL VULCANISING FLUID (FLAMMABLE)

Non CFC, environment friendly chemical used with chemical cure and dual cure repair units.

Product	Unit/Box
BS Sol- 300ml Tin	10
BS Sol- 1000ml Tin	6



## BS SOL HEAVY DUTY BLUE CEMENT (FLAMMABLE)

Fast drying non CFC chemical cures tire repairs with or without heat.

Product	Unit/Box
BS Sol- 300ml Tin	10
BS Sol- 1000ml Tin	6



## PATCH REPAIR SEALER (FLAMMABLE)

Creates an airtight seal around the over buffed areas after the repair unit is applied. Also closes porous tire Inner liners.

Product	Unit/Box
Patch Repair sealer 1000 ml Tin	6



## BLACK VULCANISING CEMENT (FLAMMABLE) 125°C (260°F)

Natural Rubber compound dissolved in solvent. Used in all heat cure application of patches and in retreading.

Product	Unit/Box
Black Vul. Cement 25 ltrs Drum	1
Black Vul. Cement 1000 ml Tin	6





# TIRE REPAIR TOOLS

## STITCHERS AND SCRAPER

- RUBBER SCRAPER
- STITCHER/BUFFER
- STITCHER, 1½", 38mm x 1/8", 3mm
- STITCHER, 1½", 38mm x 1/32", 0.8mm
- STITCHER, 2", 50mm x ¼", 6mm



## AWLS AND PACKING TOOLS

- 3" CEMENT TOOL with polypropylene handle
- SPIRAL CEMENT TOOL
- DUCK BILL AWL, 4", 100mm length
- POINTED AWL, 8", 200mm length (screwdriver-style handle)
- SKIVE PACKING TOOL, 2", 50mm x ¼", 6mm
- SKIVE PACKING TOOL, 2", 50mm x 3/8", 10mm



## SKIVING KNIVES & SCISSORS

- RUBBER SCRAPER
- TAPER SKIVING KNIFE
- EXTRA CURVE SKIVING KNIFE
- ROUND POINT FLEXIBLE SKIVING KNIFE
- HEAVY DUTY RETREAD SCISSORS 5", 125mm cut



## EXTRUDER GUNS

(110V / 220V)

MINI / GIANT



Description	Connection (volt/ watt)	Rubber throughput (lbs./h)	Operating pressure (psi)	Box/ Qty
Blackstone Extruder MINI, 110V	110/550	39.6	90	1
Blackstone Extruder MINI, 220V	220/550	39.6	90	1
Blackstone Extruder GIANT, 110V	110/550	61.6	90	1
Blackstone Extruder GIANT, 220V	220/550	61.6	90	1

## YELLOW CRAYONS

High quality, easy to see marking crayons



## AIR TOOLS

High Speed 22000 RPM

Slow Speed 3500 RPM



## CARBIDE CUTTERS

- CARBIDE CUTTER, 3", 75mm length, for 1/4", 6mm injuries
- CARBIDE CUTTER, 4", 100mm length, for 5/16", 8mm injuries
- CARBIDE CUTTER, 4 9/16", 120mm length, for 3/8", 10mm injuries
- CARBIDE CUTTER, 5", 125mm length, for 1/2", 13mm injuries



## ALUMINIUM OXIDE STONES

- MINI-PENCIL STONE, 7/16", 10.5mm, mounted on a 1/8", 3mm shaft
- PENCIL STONE, 1 1/16", 25mm long 5/16", 8mm width
- SMALL PENCIL STONE, 1 1/16", 25mm long 1/4", 6mm width (not shown)
- MUSHROOM STONE, 1 5/8", 40mm diameter, mounted on a 1/4", 6mm shaft
- MINI MUSHROOM STONE, 1/2", 13mm x 1/4", 6mm mounted on a 1/8", 3mm shaft
- CONICAL STONE, 1 1/8", 20mm x 3/4", 20mm wide mounted on a 1/4", 6mm shaft
- MUSHROOM STONE, 1 1/4", 30mm diameter, mounted on a 1/4", 6mm shaft



## CONTOUR CUPS

To be used with Air Tools having Max Speed of 3500 RPM only, while buffing tire inner liner or tubes.



## ROUND FACED RASPS

To be used with Air Tools having Max Speed of 3500 RPM only, while buffing tire inner liner or tubes.



## ROTARY GOUGES

Lightweight construction and cooler running design enhances the performance and life of these rubber cutting gouges. The razor-like surface quickly removes large quantities of rubber. Fast and easy rubber removal design minimizes operator fatigue and permits better control.



## OTR TIRE SPOTTER

Blackstone OTR Tire Spotter is an excellent tool for minor repairs in Bias & Radial OTR tires. Most minor injuries in radial and bias tyres can be repaired in a shorter time.







SEMA SHOW 2017



SEMA SHOW 2017



*...expertise redefined*

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