

PANVERSA®

TIRE REPAIR MATERIALS & TOOLS

PANESA LTD.
EUROPE

myers™
INDUSTRIES

Patch Rubber™
Company

RTI™
RUBBER TECHNICS INDUSTRY

RTI CENTRE (Rubber Technics Industry Centre) was founded in 2022 based on over 30 years of experience in the tire repair materials industry. We have gained many years of experience as a representative company in Eastern Europe of the manufacturer of TRUFLEX/PANG tire repair materials. In the 1990s, we built a sales network and a training center in Poland. We were the first to introduce unique Versacure repair inserts to the Eastern European market and successfully trained tire retreading factories in the Bandag and Kraiburg systems in their use. In the following years, we started direct cooperation with the former Joint Venture TRUFLEX/PANG factories in Mexico "Panesa" and in India "Kwik Patch LTD".

Today, the RTI CENTRE Team consists of the PANESA company, part of the TVS MOBILITY GROUP, which distributes tire repair materials for the Automotive and Professional lines. Based on the agreement, RTI CENTRE and Polish Tire Industry Association established an academy where training in several programs takes place: basic automotive tire repair and advanced professional.

Repair Unit Description

Chemical Vulcanizing Repair Units

These repair units are molded with a layer of specially compounded rubber that will vulcanize to a tube or tire at room temperature when used with a chemical cement. These chemical cements are offered in various viscosities to match the application: Super Solution (thin fast drying) for tube repairs and Blue Cement (thickest) when maximum "tack" is desired on areas of rough buff or exposed tire cord. To ensure complete coverage, the chemical cement should be applied to the prepared surface of the tire and the patch face gum. The chemical cement must be allowed to dry until tacky.



Versacure Vulcanizing Repair Units

These repair units have a "high tack" bonding layer laminated to the pre-cured body. Versacure units will vulcanize at room temperature using chemical cement. They perform best when used with heat (minimum 250°F/120°C) and pressure in retreading and sectioning equipment. When heat is applied to the entire repair Black Cement or another appropriate cement must be brushed onto the prepared inner liner. If the entire repair is not exposed to heat Blue Cement must be used. No chemical cement should be applied to the Versacure unit.



CONTENS



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Tube Repair Patches

Tube Patches

Self vulcanizing chemical cure patches feature a feather edge chemical bonding gum for maximum adhesion to tubes. Foil covering and silver backed assures easy application with superb shelf life. Use with Super Solution – Fast Dry cement – SP.

PP Tube Patches

Product	Index	Description	Box Qty
P0	425398	24 mm Round	100
P1	425399	27 mm Round	50
PP0	425400	33 mm Round	50
PP1	425401	39 mm Round	50
PP2	425402	48 mm Round	25
PP3	425403	58 mm Round	25
PP4	425404	75 mm Round	25
PP5	425405	95 mm Round	10
PP6	425406	116 mm Round	10



B | PP Tube Patches

Product	Index	Description	Box Qty
B0	425420	30 × 45 mm Oval	50
B2	425421	42 × 64 mm Oval	50
PP7	425407	37 × 74 mm Oval	25
PP8	425408	47 × 102 mm Oval	25
PP9	425409	76 × 160 mm Oval	10
PP10	425410	96 × 190 mm Oval	10
PP11	425411	55 × 255 mm Oval	10
PP12	425412	143 × 255 mm Oval	10



Tube Repair SPUDS

Chemical cure units allow permanent replacement of valves on tire tubes. Use with Super Solution – Fast Dry cement – SP or Blue Cement - MB.

Product	Index	Description	Box Qty
SPUD 65 / 66	425601	65 / 66 mm	20
SPUD 72	425602	72 mm	20
SPUD 88	425603	88 mm	20
SPUD 92	425604	92 mm	20
SPUD 120	425605	120 mm	10



Universal Tire Patches UP

Chemical cure heavy duty, all rubber, non reinforced, nailhole patch for injuries radial and bias tires. Blue edge chemical bonding gum. Puncture must be filled with plug filling material. Foil covering and silver backed assures easy application with superb shelf life. Use with Super Solution – Fast Dry cement – SP or Blue Cement – MB.

Product	Index	Description	Box Qty
UP 3	425430	35 mm Round	100
UP 4	425431	43 mm Round	25
UP 4,5	425432	47 mm Square	30
UP 6	425433	60 mm Square	25
UP 8	425434	66 mm Square	25



Combination Repairs

PPW Patch Plug

Easiest and most popular method to fill a nailhole and apply patch in one simple step. The brass wire guides the rubber stem through the injury. The stem and patch are coated by cushion gum. Provide a fast and permanent repair of bias and radial motorcycle, passenger, light truck tires repair. Chemical application - cold vulcanization. Use with: Super Solution – Fast Dry cement – SP or Blue Cement – MB.

Product	Index	Size	Box Qty
PPW-3	425470	3 mm	20
PPW-4,5	425471	4,5 mm	20
PPW-6	425472	6 mm	20
PPW-8	425473	8 mm	20
PPW-10	425474	10 mm	20



MXT Patch Plug

Special reinforced version of patch plug. Easiest method to fill a hole and apply patch in one simple step. The brass wire guides the rubber stem through the injury. The stem and patch are coated by cushion gum. Provide a fast and permanent repair of radial Truck, AGRO and OTR tires. Chemical application - cold vulcanization. Use with Blue Cement – MB.

Product	Index	Size	Box Qty
M6 XT-P	425978	7,6 mm	30
M8 XT-P	425979	9,4 mm	20
M10 XT-P	425980	12 mm	20
M13 XT-P	425981	15 mm	10



BXT Patch Plug

Special reinforced version of patch plug. Easiest method to fill a hole and apply patch in one simple step. The stem and patch are coated by cushion gum. Provide a fast and permanent repair of bias Truck, AGRO and OTR tires. Chemical application - cold vulcanization. Use with Blue Cement – MB.

Product	Index	Size	Box Qty
B13 XT	425460	13 mm	10
B20 XT	425461	20 mm	10
B25 XT	425462	25 mm	8



Combinaton Repairs

Plug Stem Wire

Rubber steam with brass wire (diameter up to 12 mm) and in a version without wire (diameter from 16 mm). Very easy to use, even in the case of angled injuries. Only for repairs in the tread area of radial or diagonal tires. Stem vulcanize chemically to the tire. Must be used with patch. Chemical application - cold vulcanization. Use with Super Solution – Fast Dry cement – SP or Blue Cement – MB.

Product	Index	Size	Box Qty
Plug Stem Wire 3	425117	3 mm	50
Plug Stem Wire 4,5	425118	4,5 mm	50
Plug Stem Wire 6	425119	6 mm	50
Plug Stem Wire 9	425120	9 mm	50
Plug Stem Wire 12	425121	12 mm	20

Plug Stem

Product	Index	Size	Box Qty
Plug Stem 16	425122	16 mm	20
Plug Stem 24	425123	24 mm	20
Plug Stem 32	425124	32 mm	10



Repair Chemicals & Cements

Super Solution SP

Fast drying vulcanizing fluid for tube and tire repairs. Use with tube patches, universal patches and plugs.

Product	Index	Volume
Super Solution Cement SP 20 ml	SP-20	20 ml
Super Solution Cement SP 60 ml	SP-60	60 ml
Super Solution Cement SP 125 ml	SP-125	125 ml
Super Solution Cement SP 250 ml	SP-250	250 ml
Super Solution Cement SP 500 ml	SP-500	500 ml



Blue Cement MB

Premium heavy-duty blue cement that meets requirements for high tack and superior adhesion of repairs in demanding environments. Can be used in cold and hot applications for C, CX, VER and VERD patches.

Product	Index	Volume
Blue Cement MB 20 ml	MB-20	20 ml
Blue Cement MB 60 ml	MB-60	60 ml
Blue Cement MB 250 ml	MB-250	250 ml
Blue Cement MB 500 ml	MB-500	500 ml
Blue Cement MB 1000 ml	MB-1000	1000 ml



Cements / Cleaners / Sealers

Black Cement BC

High tack black vulcanizing cement for use in hot application. Use to apply uncured repairs and cushion gum in tire repairing. For use with VER and VERD patches in almost all retread curing systems.

Product	Index	Volume
Black Cement BC 250 ml	BC-250	250 ml



Butyl Sealant BRS

Restores and secures the air retention of butyl inner liners with butyl rubber compound. Apply a coat around the edge of all repair units in tubeless tires to prevent air from penetrating into the cord body through damaged liners or seeping underneath the repair unit.

Product	Index	Volume
Butyl Sealant B.R.S. 250 ml	BRS-250	250 ml
Butyl Sealant B.R.S. 500 ml	BRS-500	500 ml



Bead Sealer

Brushable compound to seal leaks between tire bead and rim. Apply a thick coat to the bead prior before mounting the tire on the rim.

Product	Index	Volume
Bead Sealer BSC 1000 ml	BSC-1000	1000 ml



Pre Buff Cleaner Bufsol

To clean rubber surfaces prior to mechanical buffing. Prevents poor adhesion by dissolving mold release lubricant and other contaminants commonly found on tubes and tire inner liner surfaces. Use with scraper to remove loosened contaminants.

Product	Index	Volume
Bufsol 500 ml	BUFSOL-500	500 ml



Passengers & Truck Repairs

CX Radial Patches available with Polyester, Steel CXS, Aramid CXA cord.

CX Radial Patches

CX Radial Patches offer a chemical curing solution for repairing damages on the crown, shoulder, or sidewall of all types of radial tires. These patches are versatile, allowing for cold application through chemical vulcanization with Blue Cement – MB.

Alternatively, they can be applied using a heating method with the same Blue Cement – MB, providing flexibility in repair techniques. This adaptability makes CX patches an essential tool for maintaining the integrity and performance of radial tires.

Chemical Radial Patches

Selection tables for patches can be found on pages 13–16

Product	Index	Product	Index	Product	Index	Size [mm]	Box Qty
CX 10	425480					50 × 70	20
CX 12	425481					70 × 115	10
CX 14	425482					85 × 130	10
CX 15	425483					75 × 89	10
CX 16	425484					63 × 104	10
CX 20	425485	CXS 20	CXS-20	CXA 20	CXA-20	80 × 125	10
CX 22	425486	CXS 22	CXS-22	CXA 22	CXA-22	74 × 154	10
CX 24	425487	CXS 24	CXS-24	CXA 24	CXA-24	72 × 212	10
CX 25	425488	CXS 25	CXS-25	CXA 25	CXA-25	108 × 120	10
CX 26	425489	CXS 26	CXS-26	CXA 26	CXA-26	82 × 260	10
CX 28	425490	CXS 28	CXS-28	CXA 28	CXA-28	70 × 320	10
CX 35	425491	CXS 35	CXS-35	CXA 35	CXA-35	143 × 208	10
CX 40	425492	CXS 40	CXS-40	CXA 40	CXA-40	103 × 193	5
CX 42	425493	CXS 42	CXS-42	CXA 42	CXA-42	122 × 252	5
CX 44	425494	CXS 44	CXS-44	CXA 44	CXA-44	125 × 337	5
CX 45	425495	CXS 45	CXS-45	CXA 45	CXA-45	171 × 222	10
CX 46	425496	CXS 46	CXS-46	CXA 46	CXA-46	145 × 405	5
CX 50	425497					196 × 558	5
CX 52	425498					258 × 577	5
CX 55	425499					255 × 322	5
CX 56	425500					260 × 730	5
CX 80	425501					133 × 196	5
CX 82	425502					184 × 260	5
CX 84	425503					209 × 279	5
CX 86	425504					241 × 336	5

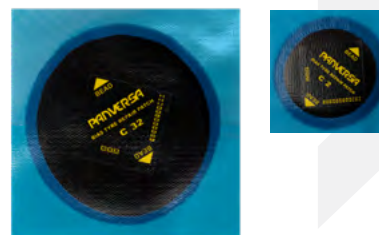


C Bias Patches

Chemical cure. This patches may be used in the repair all types of bias tires. C patches may be used cold (chemical vulcanization) with Blue Cement – MB. May it also used with heat with Blue Cement – MB.

Selection tables for patches can be found on pages 13–16

Product	Index	Size [mm]	Box Qty
C 1	425541	40	20
C 2	425542	60	20
C 32	425543	80	25
C 42	425544	115	25
C 52	425545	135	10
C 64	425546	155	10
C 74	425547	180	10
C 84	425548	195	10
C 86	425549	205	10
C 106	425550	255	5
C 126	425551	305	5
C 146	425552	360	5
C 148	425553	360	5
C 156	425554	375	5
C 158	425555	400	5
C 178	425556	425	5



Passengers & Truck Repairs

VER Radial Patches available with Polyester, Steel VERS, aramid VERA cord.

VER Radial Patches

VER Radial Patches offer a versatile solution for repairing various injuries on radial tires. Whether dealing with damage to the crown, shoulder, or sidewall, these patches can be effectively used. For cold application, Blue Cement – MB is recommended, utilizing chemical vulcanization techniques. Alternatively, for hot application, Black Cement – BC is suitable, relying on thermal vulcanization. This flexibility ensures that repairs can be tailored to the specific needs of each tire, providing a durable and reliable fix.

Selection tables for patches can be found on pages 13–16

Product	Index	Product	Index	Product	Index	Size [mm]	Box Qty
VER 10	425510					55 × 75	20
VER 12	425511					66 × 110	10
VER 14	425512					80 × 137	10
VER 15	425513					75 × 89	10
VER 16	425514					63 × 104	10
VER 20	425515	VERS 20	VERS-20	VERA 20	VERA-20	72 × 117	10
VER 22	425516	VERS 22	VERS-22	VERA 22	VERA-22	80 × 160	10
VER 24	425517	VERS 24	VERS-24	VERA 24	VERA-24	78 × 220	10
VER 25	425518	VERS 25	VERS-25	VERA 25	VERA-25	116 × 136	10
VER 26	425519	VERS 26	VERS-26	VERA 26	VERA-26	85 × 270	10
VER 28	425520	VERS 28	VERS-28	VERA 28	VERA-28	74 × 333	10
VER 33	425535					100 × 125	10
VER 35	425521	VERS 35	VERS-35	VERA 35	VERA-35	122 × 175	10
VER 40	425522	VERS 40	VERS-40	VERA 40	VERA-40	110 × 200	5
VER 42	425523	VERS 42	VERS-42	VERA 42	VERA-42	126 × 260	5
VER 44	425524	VERS 44	VERS-44	VERA 44	VERA-44	135 × 346	5
VER 45	425525	VERS 45	VERS-45	VERA 45	VERA-45	175 × 226	10
VER 46	425526	VERS 46	VERS-46	VERA 46	VERA-46	148 × 409	5
VER 50	425527					201 × 565	5
VER 52	425528					261 × 582	5
VER 55	425529					251 × 322	5
VER 56	425530					268 × 738	5
VER 80	425531					147 × 211	5
VER 82	425532					198 × 275	5
VER 84	425533					223 × 294	5
VER 86	425534					235 × 330	5



VERD Bias Patches

Versacure. This patches may be used in the repair of all types of bias tires. VERD patches may be used cold (chemical vulcanization) with Blue Cement – MB or hot (hot vulcanization) also with Black Cement – BC.

Bias Patches Dual Cure

Selection tables for patches can be found on pages 13–16

Product	Index	Size [mm]	Box Qty
VERD 1	425560	75	20
VERD 2	425561	89	25
VERD 3	425562	108	25
VERD 4	425563	161	10
VERD 5	425564	188	10
VERD 6	425565	262	5
VERD 7	425566	311	5
VERD 8	425567	363	5
VERD 9	425568	384	5
VERD 10	425569	453	5



Passengers & Truck Repairs/Inserts

Rossvik sizes

Product	Index	Size [mm]	Box Qty
R-11 chemical	42565X95	65 × 95	10
R-14 chemical	42585X130	85 × 130	10
R-15 chemical	42590X105	90 × 105	10
R-20 chemical	42590X135	90 × 135	10
R-19 chemical	425105X120	105 × 120	10
R-33 chemical	425100X125	100 × 125	10
R-23.1 chemical	425110X155	110 × 155	10
R-23 chemical	425110X185	110 × 185	10
R-25.1 chemical	425115X145	115 × 145	10
R-25.2 chemical	425125X165	125 × 165	10
R-20 thermo	42590X135 VERS	90 × 135	10



Seal-It Filler Inserts

High strength twisted cord resist breaking. Dipped in soft tacky butyl rubber to seal the injury. Quick and easy to install. For TEMPORARY use. Use with reamer, split-eye inserting tool and Super Solution – Fast Dry cement – SP.

Product	Index	Description	Box Qty
S-100 6 mm	262833	100 mm 12 strand	50
S-200 6 mm	262834	200 mm 12 strand	25
S-100 ECO 5,4 mm	S10010	100 mm 10 strand	50
S-200 ECO 5,4 mm	S20010	200 mm 10 strand	25
S-100 3,8-4,0mm	S1008	100 mm 8 strand	50
S-200 3,8-4,0mm	S2008	200 mm 8 strand	50



O-Fil-Inserts

Nylon filament and cured rubber, wrapped in Versacure gum to seal and vulcanize to the tire. Available in two sizes. Use with a split-eye inserting tool and Super Solution – Fast Dry Cement.

Product	Index	Description	Box Qty
O-Fil-Insert	O-Fil100	100 mm	50
O-Fil-Insert	O-Fil200	200 mm	50



Quick Laminated Inserts

Cured natural rubber wrapped in cushion gum to seal the injury. Quick and easy to install. For TEMPORARY use. Use with reamer, open-eye inserting tool and Super Solution – Fast Dry cement – SP.

Product	Index	Description	Qty
Quick Laminated Insert Truck	QLI-T	82 × 15 mm	1
Quick Laminated Insert Earth Mover	QLI-EM	100 × 22 mm	1



Other Products

O-Ring

Ideal for sealing and repairing tires in passenger vehicles, trucks, agricultural equipment, and other machinery. Suitable for use across a wide range of temperatures.

Product	Index	Description	Qty
OR Ring 220T Endless	425902	20" 6 mm	1
OR Ring 224T Endless	425903	24" 6 mm	1
OR Ring 25T Endless	425901	25" Cord Dia 6 mm	1
OR Ring 325T Endless	425904	25" Cord Dia 9 mm	1
OR Ring 329T Endless	425905	29" Cord Dia 9 mm	1
OR Ring 333T Endless	425906	33" Cord Dia 9 mm	1
OR Ring 335T Endlessw	425907	35" Cord Dia 9 mm	1
OR Ring 349T Endless	425908	49" Cord Dia 9 mm	1
O Ring for 30.00-51 OTR TIRE (OR451T)	425909		1
O Ring for 40.00-57 OTR TIRE (OR457T)	425910		1
"L" Type Ring LR 20	425912	20"	1
"L" Type Ring LR 25	425911	25"	1
Bead Seating Rings for Tubeless Tires Rim	425913	22.5"	1



Rope Rubber

Perfect for emergency and permanent repairs on tubeless tires of passenger cars, trucks, agricultural vehicles, and other heavy machinery. Suitable for plugging punctures and sealing leaks.

Product	Index	Qty
Extruder Rope Rubber	RR8	5 kg in paile



Cushion Gum

Ideal for internal tire repairs in passenger vehicles, trucks, agricultural machinery, and other vehicles. Used as an intermediary layer between the repair site and the repair material (e.g., patch).

Product	Index	Description	Qty
Cushion Gum	CG-5	500 × 2600 × 3 mm 5 kg	1
MTR Rubber	MTR	30 × 2600 × 3 mm 3 rolls/kg	1



Repair Kits

Moto Tire Repair Kit

Contents	Qty
Seal-It Filler Insert	1
Spiral Probe Tool	1
Split Eye Tool	1
Knife	1
Hose	1
Valve Adaptor	1
CO ₂ Cylinder	3
Cement	1



Tubeless Repair Kit

Contents	Qty
Spiral Probe Tool	1
Split Eye Tool	1
Knife	1
O-Fil-Inserts	7
Allen Key	2
Cement	1



Repair Tools

Pressure Rollers

Product	Index	Description
Pressure roller	TRT24	Ø 38 × 3 mm
Pressure roller	TRT24-5	Ø 38 × 5 mm

Brushes

Product	Index
Brass brush ergonomic	595-4553
Coconut brush	A08-114

Round Wire Brushes

Product	Index	Description
Rotary brass wire brush	11431	Ø 50 × 6 mm
Rotary wire brush in PCV	11521	Ø 50 × 8 mm
Rotary wire brush in rubber	RB507	Ø 50 × 6 mm

Tools for Rubber Processing

Product	Index	Description
Rubber scraper	TRT22	
Rubber knife	12508	150 mm
Rubber knife	12513	130 mm
Sharpening stone	12515	
Shears for rubber	12530	220 mm
Split Eye Tool	ENT-IN	
Tire injury measuring tool	TMT	

Carbide Cutters

Product	Index	Description
Carbide cutter 3	11883	Ø 3 × 60 mm
Carbide cutter 4,5	11882	Ø 4,5 × 80 mm
Carbide cutter 5,8	11884	Ø 5,8 × 90 mm
Carbide cutter 8	11885	Ø 8 × 105 mm
Carbide cutter 10	11886	Ø 10 × 110 mm
Carbide cutter 12	11887	Ø 12 × 110 mm
Carbide cutter 13	11888	Ø 13 × 110 mm

Adaptors

Product	Index	Description
Adaptor 8 mm to 3/8"	11891	3/8" Ø 8 mm
Adaptor 8 mm to 1/2"	11890	1/2" Ø 8 mm
Adaptor NV11 to 3 mm	NV11-3	Ø 3 mm
Adaptor NV11 to 4,5 mm	NV11-4,5	Ø 4,5 mm
Adaptor NV11 to 6 mm	NV11-6	Ø 6 mm
Adaptor NV11 to 8 mm	NV11-8	Ø 8 mm
Adaptor NV11 to 10 mm	NV11-10	Ø 10 mm

Grinding Stone Conical

Mounting diameter Ø 6 mm

Product	Index	Description	Gradation
Grinding stone conical	130360	Ø 8 × 25 mm	K 80
Grinding stone conical	10335	Ø 15 × 40 mm	K 80
Grinding stone conical	130359	Ø 20 × 65 mm	K 80



Repair Tools

Grinding Stone Discs

Mounting diameter Ø 6mm

Product	Index	Description	Gradation
Grinding stone disc	10321	Ø 30 × 8 mm	K 80
Grinding stone disc	10324	Ø 35 × 8 mm	K 80
Grinding stone disc	130355R	Ø 40 × 10 mm	K 80



Ball Rasps

Mounting diameter Ø 6mm

Product	Index	Description	Gradation
Ball Rasp	10172	Ø 16 mm	K 24 / SSG330
Ball Rasp	10173	Ø 22 mm	K 24 / SSG330
Ball Rasp	10171	Ø 28 mm	K 24 / SSG330



Rasping Kit Set

Mounting diameter Ø 6mm

Product	Index	Description	Gradation
Kit Set	10175	Ø 6 mm	K 60 / SSG330



Rotary Gouges

Product	Index	Description	Gradation
Rotary Gouges	10464	Ø 30 mm	3/8"
Rotary Gouges notched	10467	Ø 50 mm	3/8"



Contour Rasps

Product	Index	Description	Gradation
Contour Rasp	42A381818	Ø 38 × 18 mm	K 18
Contour Rasp	42A381836	Ø 38 × 18 mm	K 36
Contour Rasp	42A381850	Ø 38 × 18 mm	K 50
Contour Rasp	43502518	Ø 50 × 25 mm	K 18
Contour Rasp	43502536	Ø 50 × 25 mm	K 36
Contour Rasp	43502550	Ø 50 × 25 mm	K 50
Contour Rasp	41763218	Ø 76 × 32 mm	K 18
Contour Rasp	41763223	Ø 76 × 32 mm	K 23
Contour Rasp	41763236	Ø 76 × 32 mm	K 36
Contour Rasp	41VR1023818	Ø 102 × 38 mm	K 18
Contour Rasp	41VR1023823	Ø 102 × 38 mm	K 23
Contour Rasp	41VR1023836	Ø 102 × 38 mm	K 36



Pencil Rasps

Product	Index	Description	Gradation
Pencil Rasp	54610218	Ø 6 × 102 mm	K 18
Pencil Rasp	54610236	Ø 6 × 102 mm	K 36



Cone Rasps

Product	Index	Description	Gradation
Cone Rasp	47255018	Ø 25 × 50 mm	K 18
Cone Rasp	47255023	Ø 25 × 50 mm	K 23
Cone Rasp	47255036	Ø 25 × 50 mm	K 36



Repair Tools

Buffout Rasps

Product	Index	Description	Gradation
Buffout Rasp	44503518	Ø 50 × 3,5 mm	K 18
Buffout Rasp	44503523	Ø 50 × 3,5 mm	K 23
Buffout Rasp	44503536	Ø 50 × 3,5 mm	K 36
Buffout Rasp	4450518	Ø 50 × 5 mm	K 18
Buffout Rasp	4450523	Ø 50 × 5 mm	K 23
Buffout Rasp	4450536	Ø 50 × 5 mm	K 36
Buffout Rasp	4450718	Ø 50 × 7 mm	K 18
Buffout Rasp	4450723	Ø 50 × 7 mm	K 23
Buffout Rasp	4450736	Ø 50 × 7 mm	K 36
Buffout Rasp	44501018	Ø 50 × 10 mm	K 18
Buffout Rasp	44501023	Ø 50 × 10 mm	K 23
Buffout Rasp	44501036	Ø 50 × 10 mm	K 36
Buffout Rasp	44501318	Ø 50 × 13 mm	K 18
Buffout Rasp	44501323	Ø 50 × 13 mm </td <td>K 23</td>	K 23
Buffout Rasp	44501336	Ø 50 × 13 mm	K 36
Buffout Rasp	44501918	Ø 50 × 19 mm	K 18
Buffout Rasp	44501923	Ø 50 × 19 mm	K 23
Buffout Rasp	44501936	Ø 50 × 19 mm	K 36



Product	Index	Description
Low Speed Grinder	MA734	2 800 RPM
High Speed Grinder	MA145	22 000 RPM
Quick Change NV11 for Grinder	QUICK NV11	3/8"



Truck Desktop



Car Desktop




Application Chart for Radial Tires

- A** – Axial size of damage
- R** – Radial size of damage
- D** – Chanel diameter drilling on the shoulder
- C** – Canal drilling at tread area





Vehicle	Tire measure and Speed range	Sidewall		Shoulder	Tread		Patch No.	No repairable zone			
		W	L	Ø D	Ø C	W			L		
	Q	8	15	8	10	10	10	VER / CX -10	40 mm		
		20	35	8	20	20	20	VER / CX-14 VER / CX-16			
	T	6	12	6	8	8	8	VER / CX-10			
		15	30	6	12	12	12	VER / CX-12 VER / CX-15 VER / CX-16			
	H	6	6	3	6	6	6	VER / CX-10			
		10	10	6	10	10	10	VER / CX-15			
	V	3	3	3	6	6	6	VER / CX-10			
		-	-	-	8	8	8	VER / CX-15			
	ZR	-	-	-	3	3	3	VER / CX-10			
		-	-	-	6	6	6	VER / CX-15			
	 6-8PR MAX.-121LI	T	8	8	-	10	10	10		VER / CX-12	54 mm
			8	8	3	12	12	12		VER / CX-16	
15		30	8	15	15	15	VER / CX-20				
H		-	-	-	6	6	6	VER / CX-15			
		6	6	-	10	10	10	VER / CX-16			
15		20	3	12	12	12	VER / CX-20				
 MIN LI: 122	6.00 – 7.50 7R – 8.5R 205/ – 235/	10	15	8	15	15	15	VER / CX-20	65 mm		
		15	60	10	15	15	25	VER / CX-22			
		10	80	15	25	25	40	VER / CX-40			
		25	60	15	25	25	40	VER / CX-40			
	8.25 – 10.00 9R – 10R 225/ – 275/	1 cable	80	-	-	-	-	VER / CX-24			
		2 cable	60	-	-	-	-	VER / CX-24			
		6	10	8	12	12	20	VER / CX-20			
		10	80	15	20	20	40	VER / CX-40			
		20	60	15	20	20	40	VER / CX-40			
		10	110	20	30	30	50	VER / CX-42			
25	80	20	30	30	50	VER / CX-42					
20	130	25	40	40	70	VER / CX-44					
40	80	25	40	40	70	VER / CX-44					
-	-	-	15	15	25	VER / CX-25 CW					
-	-	-	25	25	40	VER / CX-35 CW					
-	-	-	40	40	60	VER / CX-45 CW					
1 cable	80	-	-	-	-	VER / CX-24					
2 cable	60	-	-	-	-	VER / CX-24					
1 cable	120	-	-	-	-	VER / CX-26 SW					
2 cable	60	-	-	-	-	VER / CX-26 SW					



Application Chart for Radial Tires

Vehicle	Tire measure and Speed range	Sidewall		Shoulder	Tread		Patch No.	No repairable zone			
		W	L	Ø D	Ø C	W			L		
	11.00 - 13.00 11R - 13R 275/- 385/	6	6	6	10	10	10	VER / CX-20	80 mm		
		10	60	10	15	15	20	VER / CX-40			
		15	35	10	15	15	20	VER / CX-40			
		10	100	20	25	25	50	VER / CX-42			
		25	80	20	25	25	50	VER / CX-42			
		20	130	25	40	40	70	VER / CX-44			
		40	80	25	40	40	70	VER / CX-44			
		-	-	-	15	15	20	VER / CX-25 SW			
		-	-	-	20	20	30	VER / CX-35 SW			
		-	-	-	40	40	60	VER / CX-45 SW			
		1 cable	120	-	-	-	-	VER / CX-26 SW			
		3 cable	60	-	-	-	-	VER / CX-26 SW			
		1 cable	140	-	-	-	-	VER / CX-28 SW			
2 cable	80	-	-	-	-	VER / CX-28 SW					
 MAX LI: 177	14.00 - 16.00 15R - 24R >395/-	-	-	-	8	8	8	VER / CX-20	80 mm		
		12	30	10	15	15	20	VER / CX-40			
		10	100	20	20	20	30	VER / CX-42			
		20	60	20	20	20	30	VER / CX-42			
		20	130	25	30	30	50	VER / CX-44			
		30	60	25	30	30	50	VER / CX-44			
		30	120	30	40	40	70	VER / CX-46			
		40	100	30	40	40	70	VER / CX-46			
		1 cable	120	-	-	-	-	VER / CX-26 SW			
		3 cable	60	-	-	-	-	VER / CX-26 SW			
		1 cable	140	-	-	-	-	VER / CX-28 SW			
		2 cable	80	-	-	-	-	VER / CX-28 SW			
		-	-	-	15	15	20	VER / CX-25 SW			
-	-	-	20	20	30	VER / CX-35 SW					
-	-	-	40	40	60	VER / CX-45 SW					
	6.5 - 12.4 265/- 320/70 270/- 340/60 360/- 460/40	20	20	10	20	20	30	VER / CX-20	100 mm		
		20	55	10	20	20	40	VER / CX-24			
		50	70	25	40	40	60	VER / CX-80			
		70	50	25	40	40	60	VER / CX-80			
		60	100	45	60	60	75	VER / CX-82			
		100	75	45	60	60	75	VER / CX-82			
		60	125	55	75	75	90	VER / CX-84			
		100	80	55	75	75	90	VER / CX-84			
	13.6 - 18.4 275/- 520/60 420/- 560/60	15	25	10	15	15	15	VER / CX-20	115 mm		
		15	60	10	15	15	30	VER / CX-24			
		40	60	20	30	30	50	VER / CX-80			
		60	40	20	30	30	50	VER / CX-80			
		60	100	40	60	60	70	VER / CX-82			
		85	70	40	60	60	70	VER / CX-82			
		75	125	50	80	80	100	VER / CX-84			
		100	75	50	80	80	100	VER / CX-84			
		20.8 - 30.5 540/- 800/70 580/- 900/60	90	140	75	100	100	140		VER / CX-86	140 mm
			125	110	75	100	100	140		VER / CX-86	
	10		20	10	10	10	10	VER / CX-20			
	12		50	10	10	10	20	VER / CX-24			
25	60		10	25	25	40	VER / CX-80				
40	100		30	40	40	60	VER / CX-82				
60	125		40	70	70	90	VER / CX-84				
85	75		40	70	70	90	VER / CX-84				
	85	120	60	85	85	120	VER / CX-86				
	120	80	60	85	85	120	VER / CX-86				










Application Chart for Radial Tires

Vehicle	Tire measure and Speed range				Sidewall		Shoulder	Tread			Patch No.	No repairable zone	
	65	70	80-75	100-90	W	L	Ø D	Ø C	W	L			
 	350/65 R 15 525/65 R 20.5	16/70 R 20 16/70 R 10 16/70 R 24 365/70 R 18 405/70 R 18 400/70 R 20 405/70 R 24 440/70 R 24 460/70 R 24 540/70 R 24	10.5 R 20 16.5 R 20 400/80 R 15 275/80 R 20 335/80 R 20 11/80 R 20 11/80 R 20 13/80 R 20 375/75 R 20 365/80 R 20 425/75 R 20	7.50 R 15 8.25 R 15 10.00 R 20 11 LR 16 10 R 16.5-18 R 22.5 9.00 R 20-16.00 R 20 11/80 R 20 425/95 R 20 24 R 21 14.00 R 21 11.00 R 21 495/90 R 21	10	10	-	12	12	15	VER / CX-20	75 mm	
					10	60	10	15	15	30	VER / CX-40		
					20	50	10	15	15	30	VER / CX-40		
					10	90	20	25	25	50	VER / CX-42		
					20	70	20	25	25	50	VER / CX-42		
					20	120	25	35	35	70	VER / CX-44		
					30	100	25	35	35	70	VER / CX-44		
					40	150	30	50	50	100	VER / CX-46		
					60	120	30	50	50	100	VER / CX-46		
					-	-	-	20	20	40	VER / CX-25		
					-	-	-	40	40	60	VER / CX-35		
					-	-	-	10	10	10	VER / CX-20		
					20	100	25	30	30	60	VER / CX-44		
					40	80	25	30	30	60	VER / CX-44		
					30	150	30	45	45	90	VER / CX-46		
	60	100	30	45	45	90	VER / CX-46						
	40	250	35	60	60	120	VER / CX-50						
	60	180	35	60	60	120	VER / CX-50						
	70	300	55	100	100	180	VER / CX-52						
	100	200	55	100	100	180	VER / CX-52						
	80	350	60	130	130	210	VER / CX-56						
	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25	445/95 R 25
	110	250	60	130	130	210	VER / CX-56						
	-	-	-	40	40	70	VER / CX-35						
	-	-	-	70	70	110	VER / CX-55						
	-	-	-	8	8	8	VER / CX-20						
	20	80	20	25	25	50	VER / CX-44						
	40	60	20	25	25	50	VER / CX-44						
	30	150	35	40	40	80	VER / CX-46						
	60	100	35	40	40	80	VER / CX-46						
40	250	35	55	55	110	VER / CX-50							
60	180	35	55	55	110	VER / CX-50							
60	300	55	80	80	140	VER / CX-52							
80	200	55	80	80	140	VER / CX-52							
60	350	60	120	120	190	VER / CX-56							
100	250	60	120	120	190	VER / CX-56							
-	-	-	35	35	60	VER / CX-35							
-	-	-	65	65	100	VER / CX-55							
775/65 R 29 800/65 R 29 675/65 R 29 675/65 R 33 1050/65 R 39 30/65 R 29 35/65 R 33 40/65 R 39			26.5 R 29 29.5 R 29 33.5 R 33 37.5 R 33 29.5 R 35 37.5 R 39 40.5/75 R 39	33.25 R 29 18.00 R 33 21.00 R 33 21/90 R 33 21.00 R 35 24.00 R 35 33.25 R 35 37.25 R 35	20	80	20	25	25	50	VER / CX-44	150 mm	
					40	60	20	25	25	50	VER / CX-44		
					30	150	35	40	40	80	VER / CX-46		
					60	100	35	40	40	80	VER / CX-46		
					40	250	35	55	55	110	VER / CX-50		
					60	180	35	55	55	110	VER / CX-50		
					60	300	55	80	80	140	VER / CX-52		
					80	200	55	80	80	140	VER / CX-52		
					60	350	60	120	120	190	VER / CX-56		
					100	250	60	120	120	190	VER / CX-56		
					-	-	-	35	35	60	VER / CX-35		
					-	-	-	65	65	100	VER / CX-55		


Application Chart for Universal Patches


Vehicle								
Diameter of the injury [Ø max mm]	1-2	3	5	6	3	5	6	9
Patch No.	UP3	UP4	UP4,5/UP6	UP8	UP4/UP4,5	UP4,5/UP6	UP6	UP8

Application Chart for Stem Inserts

Vehicle	Speed range	Diameter of the injury [Ø mm]				Tread area	Number of repairs allowed
		3	4,5	6	9		
	J	PPW3	-	-	-		2
	K-T H-ZR	PPW3	-	-	-		1
	below V	PPW3	-	-	-		3
	above V	PPW3 PS3 + UP4,5	PPW4,5 PS4,5 + UP6	PPW6 PS6 + UP8	-		3
	run FLAT below V	PPW3 PS3 + UP4,5	PPW4,5 PS4,5 + UP6	PPW6 PS6 + UP8	-		1
	run FLAT ZR	PPW3 PS3 + UP4,5	-	-	-		1
	-	-	PPW4,5 PS4,5 + UP6	PPW6 PS6 + UP8	PPW10 PS9 + UP8		4

Application Chart for Diagonal Tires

Vehicle	Diameter of the injury [Ø max mm]	Ply Rating							
		4	6	8	10	12	14	16	18
	3	C 1	C 1	C 1	C 1	C 1	C 2	C 2	C 2
	6	C 2	C 2	-	-	-	-	C 32	C 32
	13	C 32	C 32	C 32	C 32	C 64	C 64	C 64	C 74
	25	C 42	C 42	C 52	C 64	C 64	C 74	C 74	C 86
	40	C 52	C 64	C 64	C 74	C 74	C 84	C 86	C 106
	50	C 64	C 64	C 74	C 84	C 86	C 86	C 106	C 126
	65	-	C 74	C 104	C 104	C 106	C 106	C 126	C 126
	75	-	-	-	C 106	C 126	C 126	C 126	C 146
	90	-	-	-	C 126	C 146	C 146	C 146	C 158
100	-	-	-	C 146	C 146	C 146	C 146	C 158	

Vehicle	Diameter of the injury [Ø max mm]	Ply Rating							
		4	6	8	10	12	14	16	18
	6	-	-	VERD 1	VERD 1	VERD 1	VERD 1	VERD 2	VERD 2
	13	VERD 2	VERD 2	VERD 2	VERD 2	VERD 4	VERD 4	VERD 4	-
	25	VERD 3	VERD 3	-	VERD 4	VERD 4	VERD 5	VERD 5	-
	40	-	VERD 4	VERD 4	VERD 5	VERD 5	-	-	VERD 6
	50	VERD 4	VERD 4	VERD 5	-	-	-	VERD 6	VERD 7
	65	-	VERD 5	-	-	VERD 6	VERD 6	VERD 7	VERD 7
	75	-	-	-	VERD 6	VERD 7	VERD 7	VERD 7	VERD 8
	90	-	-	-	VERD 7	VERD 8	VERD 8	VERD 8	VERD 9
	100	-	-	-	VERD 8	VERD 8	VERD 8	VERD 8	VERD 9
125	-	-	-	-	-	VERD 10	VERD 10	VERD 10	

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