

W. P. & R. S.

MARS

INDUSTRIAL SUPPLIES

DULUTH · HIBBING
BLOOMINGTON

CATALOG 81

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DEVCON EPOXY COMPOUNDS

PLASTIC CARBIDE

Heavily filled with random-sized granules and smaller particles of carbide, one of the hardest substances known. Used for lining slurry pumps, chutes, and other areas subject to severe abrasion. Bonds to all metals, wood, carbide, many plastics, etc. Not for repairs involving machining.



PLASTIC CARBIDE A — THE CARBIDE PUTTY

Contains large size granules of carbide. Can be formed into any shape.

Size Container	1 lb.	4 lb.	15 lb.
Stock No.	10040	10050	10060
No./Case	24	6	1
Shipping Wt./Case, lbs.	38	32	21



PLASTIC CARBIDE 1 — SMOOTH PASTE

Contains medium-size carbide granules. Designed for applications requiring a smoother finish. Can be applied over Carbide A as a finish coat.

Size Container	1 lb.
Stock No.	10010
No./Case	24
Shipping Wt./Case, lbs.	38

WEAR-RESISTANT EPOXY COMPOUNDS

Wear-Resistant, self-lubricating materials. Similar to Plastic Steel. Used for building up metal shafts and pumps, making special bearings, and for general repairs. Also for making metal forming dies and duplicating masters because of its hardness and durability. Used on surfaces subject to sliding friction. Bonds to aluminum, iron, steel, bronze, wood, concrete, carbide, many plastics, etc. No heat, pressure, or special tools required. Non shrinking.

Liquid-type Devcon WR **Putty-type Devcon WR-2**





Size Container		1 lb.	4 lb.	15 lb.
Stock No.	WR	11210	11220	11230
	WR-2	11410	11420	11430
No./Case		24	6	1
Shipping Wt./Case, lbs.		38	32	21

DEVCON UW — UNDERWATER EPOXY COMPOUND



For underwater marine repairs and for repairing cracked or broken valves, pumps, tanks, and piping in paper mills, water treatment and chemical plants, dams, oil rigs, and similar wet environments. Bonds to wet metals wood, glass, concrete. Semiflexible epoxy. Outstanding tensile and compression strength. Good chemical resistance. Non-shrinking, non-rusting, does not cause galvanic action.

Size Container	1 lb.	4 lb.	15 lb.
Stock No.	11800	11810	11820
No./Case	12	6	1
Shipping Wt./Case, lbs.	33	21	19



DEVCON 101 LIQUID EPOXY

For backing up or filling forms made of Plastic Steel and other Devcon materials. Also used as a casting resin for making foundry patterns, core boxes, fixtures, etc., not requiring very high strength.

Size Container	15 lb.
Stock No.	11450
No./Case	1
Shipping Wt./Case, lbs.	20

DEVCON SLOW HARDENER

Used with Devcon products to produce longer working and hardening time. Working life is approximately 90 minutes at 75°F. Reduces heat build-up and thus prevents distortion and shrinkage when casting large, thick parts.
A-1 for putty types — Used with Plastic Steel A, Devcon F, L, WR-2, BR, and ST.
B-1 for liquid types — Used with Plastic Steel B, Devcon F-2, and WR.

Size Container		½ gal.
Stock No.	A-1	10350
	B-1	10340
No./Case		4
Shipping Wt./Case, lbs.		13

DEVCON FAST HARDENER

Used in place of standard hardener on applications requiring fast cure of Devcon materials. Working time of one pound of Devcon with fast hardener is approximately 10 minutes instead of 45 minutes at 75°F. Hardening time is 15 minutes. Physical strengths same as with standard hardener.

Putty-type FH-1 — Used with Plastic Steel A, Plastic Carbide, Devcon BR, F, ST, and WR-2.

Liquid-type FH-2 — Used with Plastic Steel B, Devcon F-2 and WR.

Size Container		½ pt.
Stock No.	FH-1	10400
	FH-2	10420
No./Case		12
Shipping Wt./Case, lbs.		7

DEVCON FLEX

Used to make Plastic Steel A & B, and Devcon F, F-2, L, WR, and WR-2 more flexible or rubber-like. For applications where high impact strength plus flexibility is important. Good for applications involving severe vibration. Also increases adhesion.

Size Container	½ pt.	1 gal.
Stock No.	10640	10650
No./Case	24	4
Shipping Wt./Case, lbs.	14	37

DEVCON THINNER

Used with Plastic Steel A & B, and all Devcon epoxy repair and tooling compounds to produce more fluid mixtures for applications where thinner consistency is required.

Size Container	½ pt.
Stock No.	10600
No./Case	24
Shipping Wt./Case, lbs.	17

DEVCON LIQUID RELEASE AGENT

Used as an alternate for Devcon regular paste release agent where extremely fine detail is involved. Used to prevent adhesion of Devcon to models, etc.

Size Container	1 qt.	1 gal.
Stock No.	10520	10530
No./Case	1	1
Shipping Wt./Case, lbs.	3	9

DEVCON URETHANES

ROOM TEMPERATURE CURING URETHANES



Rubber-like compounds used for casting gaskets in place; repairing conveyor belts; lining chutes, tanks, pumps and tumbling barrels; repairing or making rubber rolls and rubber wheels; coating steel wheels on factory trucks; making metal-forming die blocks, flexible jigs, flexible molds, and machinery parts. Flexane cures to an extremely tough, flexible solid. Easy to use — no heat, pressure or special molds required. They are 100% solids. Contain no solvents, hence thick sections can be cast at one time without shrinkage. Has high chemical and abrasion resistance and tensile strength. Various durometers available — from soft and highly flexible to hard and semi-rigid. Each pack contains Flexane, curing agent, release agent, and complete instructions.

Size Container	1 lb.	10 lb.
No./Case	12	1
Shipping Wt./Case, lbs.	21	12

Flexane 94 Putty and Liquid types — Shore A hardness 94 — hard.

Stock No.		
Putty	15270	15280
Liquid	15250	15260

Flexane 80 Putty and Liquid types — Shore A hardness 80

Stock No.		
Putty	15820	15830
Liquid	15800	15810

Flexane 60 Liquid type only — Shore A hardness 60

Stock No.	
	15200 15210

Flexane 30 Liquid type only — Shore A hardness 30 — soft

Stock No.	
	15680 15690

FLEXANE PRIMER FOR METAL

Gives excellent adhesion to all metals. It is intended for Flexane 95 and 85 only. Flexanes have poor adhesion to metal unless Primer is used.

Size Container	¼ lb.
Stock No.	15980
No./Case	12
Shipping Wt./Case, lbs.	7

FLEXANE ACCELERATOR

To accelerate hardening of Flexane 95, 85, and 60, even at freezing temperatures. (Do not use with Flexane 30).

Size Container	12 oz.
Stock No.	15990
No./Case	12
Shipping Wt./Case, lbs.	11

TAPPING & MACHINING COMPOUND

"DEV-TAP"™



For easier tapping, threading, drilling, reaming, etc., one drop saves time, money, and tools, and produces better surface finish. Provides easier machining, cuts friction loss, reduces breakage. For ultra-hard metals — titanium, stainless, as well as for steel, brass, etc.

Size Container	¼ pt.	½ pt.	1 pt.	1 qt.	1 gal.	5 gal.	50 gal.
Stock No.	16170	16180	16200	16210	16220	16230	16240
No./Case	24	12	12	12	6	1	1
Shipping Wt./ Case, lbs.	10	10	21	39	74	55	575

MECHANICAL PACKINGS & SEALS

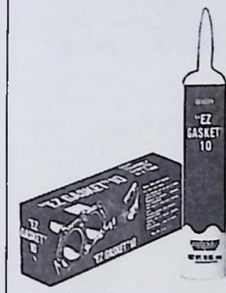
DEVCON "FORM PACK"



The "universal" mechanical packing. Used for permanent sealing of rotating or reciprocating shafts on pumps, pistons, valves and stuffing boxes. Can be used on top of old packing without shutting down equipment. Comes in loose fibrous form (not braided or woven). Can easily be formed or forced into any crevice. Contains long, high-quality asbestos fibers saturated with Teflon.* Self-lubricating; 6 times more effective than graphite. Fits any size or shape; eliminates need for large inventory of packings. Temperature range: −300°F to +500°F. Considerably less expensive than standard Teflon* packing and much quicker and easier to apply. Excellent chemical resistance. Each kit contains Form Pack, Teflon cord for sealing or damming large spaces, and instructions.

Form Pack 1 — For general use, except for strong acids. Excellent resistance to oil, gasoline, water, and most chemicals found in industry. Further details on request.
Form Pack 2 — Contains blue asbestos. Can be used with strong acids.

Size Container		1 lb.	5 lb.
Stock No.	Form Pack 1	18000	18050
	Form Pack 2	18010	18060
No./Case		6	1
Shipping Wt./Case, lbs.		8	6



"EZ GASKET"™ 10

THE GASKET IN A TUBE

Do-it-yourself gaskets replace thousands of cut gaskets; reduces gasket inventory. Fills large or small gaps between poorly mated flanges; no need for close tolerance fitting. Provides positive, high-pressure adhesive seals even on scratched, scored parts. Non-shrinking. Works with all metals, plastics, glass, etc. It's easy, it's fast — just squeeze out to size and shape needed.

Size Container	4 oz. tube	10 oz. cartridge
Stock No.	18100	18120
No./Case	12	6
Shippin Wt/Case, lbs.	6	6

SILICONE RUBBER COMPOUND

DEVCON® SILITE® 100



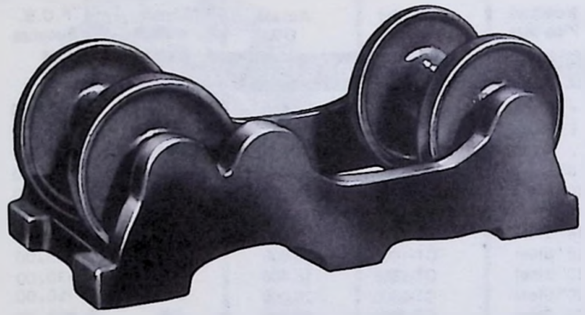
This silicone rubber adhesive/sealant is guaranteed to remain flexible 10 years after it is applied. A one-part, translucent, non-sagging paste, it requires no mixing for cure. Stays flexible at temperatures from −70°F to +500°F. Stretches many times its length. Has outstanding adhesion to glass, ceramic, aluminum, and many plastics. Resists sunlight, weathering, water, and most chemicals. An excellent insulator, its dielectric strength is unaffected by electrical cycling or stress. Uses include sealing joints in curtain wall construction, potting electronic components, insulating electrical boxes, fabricating and repairing gaskets, and making expansion and contraction seals in bridges, and tunnels. It is also used for general maintenance, caulking and sealing, and for production bonding. Available in clear, white, black and aluminum.

Size Container		3-oz. tube	cartridge	5 gal.
Stock No.	Clear	17100	17150	17160
	White	17090	17140	17200
No./Case		24	12	1
Shipping Wt./Case, lbs.		6	11	45

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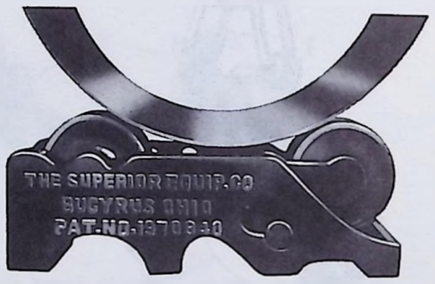
SUPERIOR *Equipment*

PIPE DOLLIES
FOR LINING UP AND WELDING

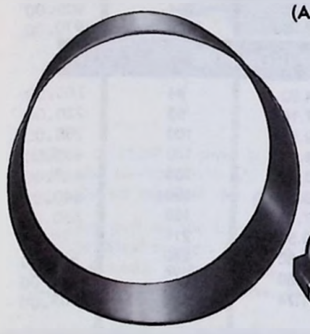


STANDARD MODEL
(Adjustable for 4" to 20" pipe)

WORKING POSITION



SELF-EJECTING MODEL
(Adjustable for 4" to 36" pipe)



EJECTING POSITION



	Model No.	Net Weight	Price
Standard Model	DD-100	20 lbs.	$ 70.00
Self-Ejecting Model	D-100	30 lbs.	97.00
Special	2" to 20"	21 lbs.	95.00

ALL SUPERIOR DOLLIES HAVE THESE FEATURES

Frames are constructed of alloy steel. Drop forged rollers are fully machined to insure uniform contact with the pipe. Rounded faces of rollers prevent marring the pipe. Welded string of pipe can be rolled easily from the Self-Ejecting Dolly by releasing the roller lock pin.

Frommelt Safety Products

Frommelt Fabrics

A complete selection of approved fabrics available by the yard or roll.

STOCK NO.	FABRIC DESCRIPTION	WEIGHT	WIDTH
M-1050	**DUCK** — Light duty, medium Wt. fabric which is fire-resistant and washable. Royal blue color only. NOT AVAILABLE IN YARDAGE OR ROLLS.	12 oz.	—
M-1051	**DUCK** — Heavy Wt., hard finish, UL, FM, CFM approved. Resistant to fire, water, mildew. Safety yellow or forest green colors.	16 oz.	36"
M-1052	**DUCK** — Medium Wt., hard finish, UL, FM, CFM approved. Resistant to fire, water, mildew. Safety yellow or forest green colors.	14 oz.	36"
M-1053	**WELD-TEX** — Glass cloth fabrics coated on both sides with vinyl. Resists fire, water, mildew, oils, alkalis and most acids. Completely washable. Safety yellow or forest green colors.	16 oz.	54"
M-1054	**ZEBRA** — Same basic fabric as Weld-Tex. Bright yellow and black striped on the outside, solid black on inside.	16 oz.	54"
M-1055	**RAY-FOIL** — Highly heat reflective. Aluminum foil laminated to glass cloth with a neoprene backing.	16 oz.	48"
M-1056	**ROCKET RED** — Same basic fabric as Weld-Tex. Fluorescent red color.	.16 oz.	72"
M-1057	**ASBESTEX** — UL grade asbestos with neoprene coating for direct contact and resistance to sparks, splash, molten metal. Safety yellow one side, white other side.	2.50 lb.	40"
M-1058	**FRO-BESTOS** — Heavy Wt. UL grade asbestos combined with polyvinyl for a finish which is extremely heat and abrasion resistant. White only.	2.50 lb.	40"
M-1059	**ALUMINIZED FRO-BESTOS** — Heavy Wt. UL grade asbestos with aluminum coating.	2.50 lb.	40"
M-1060	**FRO-PRENE** — Nylon fabric coated with Hypalon for resistance to wear and abrasion. Also resists fire, water, mildew, oils and most acids. 3-color combinations: forest green one side, white other side; rust one side, white other side: bamboo one side, white other side.	19 oz.	60"
M-1061	**ARMOR-PLEAT** — Heavy-duty rubberized nylon fabric. Highly abrasion resistant. Ideal where welding sparks and splash come in direct contact with fabric. Black only.	50 oz.	54"
M-1062	**ALUMINIZED ARMOR-PLEAT** — Armor-Pleat fabric with foil laminated to one side.	50 oz.	40"
M-1063	**SAF-T-VU** — Heavy duty transparent vinyl. Safety yellow color.	12-13 Mil.	54"

Welding Curtains

A quick, inexpensive way to shield or isolate any working area. Can easily be hung anywhere.

SIZE*	M-1052 DUCK (14 oz.) STOCK NO.	WELD-TEX STOCK NO.	ZEBRA STOCK NO.	M-1050 DUCK (12 oz.) STOCK NO.	SAF-T-VU** STOCK NO.	SHIPPING WEIGHT
5' x 6'	110-D	110-WT	110-Z	110-RB	110-SV	5 lbs.
5' x 9'	111-D	111-WT	111-Z	111-RB	111-SV	6 lbs.
5' x 12'	112-D	112-WT	112-Z	112-RB	112-SV	8 lbs.
5' x 15'	113-D	113-WT	113-Z	113-RB	113-SV	10 lbs.
6' x 6'	101-D	101-WT	101-Z	101-RB	101-SV	6 lbs.
6' x 9'	102-D	102-WT	102-Z	102-RB	102-SV	8 lbs.
6' x 12'	103-D	103-WT	103-Z	103-RB	103-SV	10 lbs.
6' x 15'	104-D	104-WT	104-Z	104-RB	104-SV	12 lbs.

Covers and Blankets

For maximum protection of flammables and equipment surrounding hazardous work. Can simply be laid over materials to be protected or tied down using built-in grommets.

SIZE*	M-1051 DUCK (16 oz.) STOCK NO.	UL-GRADE FRO-BESTOS STOCK NO.	UL-GRADE ASBESTEX STOCK NO.	FRO-PRENE STOCK NO.	ARMOR-PLEAT STOCK NO.	SHIPPING WEIGHT
6' x 6'	105	111	117	123	135	12 lbs.
6' x 9'	106	112	118	124	136	16 lbs.
9' x 12'	107	113	119	125	137	34 lbs.
9' x 15'	108	114	120	126	138	42 lbs.
12' x 15'	109	115	121	127	139	56 lbs.
12' x 18'	110	116	122	128	140	66 lbs.

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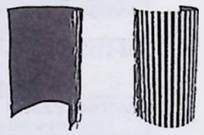
Frommelt safety products

shields and screens

All Frommelt Safety Shields and Screens are designed for quick set-up and portability. They are well suited to a variety of uses both indoors and outdoors.

Spa-Fla Shields

The quickest and most convenient protection possible. Spa-Fla shields are flexible for forming around the work area, are lightweight and include a built-in handle for easy carrying.

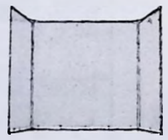


SCREEN SIZE	M-1052 DUCK (14 oz.) STOCK NO.	WELD-TEX STOCK NO.	ZEBRA STOCK NO.	ARMOR-PLEAT STOCK NO.	SHIPPING WEIGHT
18" x 36"	JR-D	JR-WT	JR-Z	JR-AR	5 lbs.
36" x 48"	2035-D	2035-WT	2035-Z	2035-AR	10 lbs.
36" x 72"	2033-D	2033-WT	2033-Z	2033-AR	14 lbs.
48" x 72"	290-D	290-WT	290-Z	290-AR	18 lbs.
48" x 108"	465-D	465-WT	465-Z	465-AR	25 lbs.
60" x 72"	298-D	298-WT	298-Z	298-AR	24 lbs.
60" x 108"	933-D	933-WT	933-Z	933-AR	33 lbs.
60" x 144"	1020-D	1020-WT	1020-Z	1020-AR	40 lbs.
72" x 108"	773-D	773-WT	773-Z	773-AR	46 lbs.

Special size Spa-Fla Shields available in all fabrics.
OPTIONAL EQUIPMENT
Ring Stands (set of 3).....(RS 50)

Porto-Screens—Series "50"

A safety screen in kit form. Kit includes: fire-resistant covering fabric, slip-on hinges, slip-on tees and hooks . . . you supply the 1/2" pipe for framing.



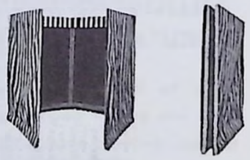
OVER-ALL SIZE	NO. OF PANELS	M-1052 DUCK (14 oz.) STOCK NO.	WELD-TEX STOCK NO.	ZEBRA STOCK NO.	ARMOR-PLEAT STOCK NO.	M-1050 DUCK (12 oz.) STOCK NO.	SAF-T-VU STOCK NO.	SHIPPING WEIGHT
5' x 9'	3	301-D	301-WT	301-Z	301-AR	301-RB	301-SV	15 lbs.
5' x 12'	3	302-D	302-WT	302-Z	302-AR	302-RB	302-SV	17 lbs.
6' x 9'	3	303-D	303-WT	303-Z	303-AR	303-RB	303-SV	16 lbs.
6' x 12'	3	304-D	304-WT	304-Z	304-AR	304-RB	304-SV	18 lbs.
5' x 12'	4	401-D	401-WT	401-Z	401-AR	401-RB	401-SV	24 lbs.
5' x 16'	4	402-D	402-WT	402-Z	402-AR	402-RB	402-SV	28 lbs.
6' x 12'	4	403-D	403-WT	403-Z	403-AR	403-RB	403-SV	30 lbs.
6' x 16'	4	404-D	404-WT	404-Z	404-AR	404-RB	404-SV	34 lbs.

Special size Series "50" Screens available in all fabrics.

OPTIONAL EQUIPMENT
View port windows.....(VPW 53)
Casters for
3-section screen (4).....(CAT 52)
4-section screen (5).....(CAT 51)
5-section screen (6).....(CAT 53)

Saf-t-Screens—Series "60"

A lightweight, portable screen with sectional design that permits flexibility in size and shape.



OVER-ALL SIZE	NO. OF PANELS	SIZE OF PANELS	M-1052 DUCK (14 oz.) STOCK NO.	WELD-TEX STOCK NO.	ZEBRA STOCK NO.	ARMOR-PLEAT STOCK NO.	M-1050 DUCK (12 oz.) STOCK NO.	SAF-T-VU STOCK NO.	SHIPPING WEIGHT
5' x 8'	2	5' x 4'	503-D	603	603-Z	803	203-RB	903-SV	17 lbs.
6' x 8'	2	6' x 4'	504-D	604	604-Z	804	204-RB	904-SV	20 lbs.
5' x 12'	3	5' x 4'	505-D	605	605-Z	805	205-RB	905-SV	20 lbs.
6' x 12'	3	6' x 4'	506-D	606	606-Z	806	206-RB	906-SV	24 lbs.
5' x 16'	4	5' x 4'	507-D	607	607-Z	807	207-RB	907-SV	30 lbs.
6' x 16'	4	6' x 4'	508-D	608	608-Z	808	208-RB	908-SV	35 lbs.
5' x 20'	5	5' x 4'	509-D	609	609-Z	809	209-RB	909-SV	35 lbs.
6' x 20'	5	6' x 4'	510-D	700	700-Z	900	300-RB	910-SV	40 lbs.

Special size screens available in all fabrics.

OPTIONAL EQUIPMENT
View port windows.....(VPW 53)
Casters for
3-section screen (4).....(CAT 52)
4-section screen (5).....(CAT 51)
5-section screen (6).....(CAT 53)

A complete package of specially designed welding booths is available including supports, tracks, hangers, and floor bases.
Ask for the Frommelt catalog.

Frommelt safety products

shields and screens cont.

OSS Shields

A flexible 14-gauge galvanized core enables the OSS shields to be shaped to fit into confined areas or around obstructions. Zebra cover fabric is up from floor level to allow fumes and smoke to escape at bottom.

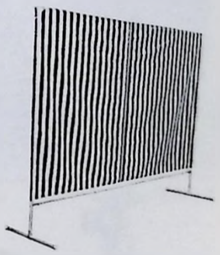


AVAILABLE IN THREE SIZES
Stock No. 2033-OSS/3'0" high x 6'0" wide, wt. 8 lbs.
Stock No. 290-OSS/4'0" high x 6'0" wide, wt. 10 lbs.
Stock No. 298-OSS/5'0" high x 6'0" wide, wt. 12 lbs.

OPTIONAL EQUIPMENT
Ring Stands (set of 3).....(RS 50)

OSS Screens

Can be used to isolate welding, grinding, chemical spray, flame cutting, and painting operations—most any job in which there is danger to personnel, products or plant processes.



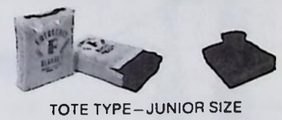
SINGLE PANEL SCREENS (ZEBRA FABRIC)
(Includes 1 set of two crossbar legs per panel)
Stock No. 20-OSS/5'0" wide x 4'0" high, wt. 8 lbs.
Stock No. 21-OSS/10'0" wide x 5'0" high, wt. 11 lbs.
Stock No. 22-OSS/8'0" wide x 6'0" high, wt. 10 lbs.
Stock No. 23-OSS/6'0" wide x 7'0" high, wt. 9 lbs.

MULTIPLE PANEL SCREENS
Stock No. 20-OSS/5'0" wide x 4'0" high.
2-PANEL w/2 hinges, 2 crossbar legs.....(M20-OSS-2)
3-PANEL w/4 hinges, 2 crossbar legs.....(M20-OSS-3)
4-PANEL w/6 hinges, 2 crossbar legs.....(M20-OSS-4)
Stock No. 21-OSS/10'0" wide x 5'0" high.
2-PANEL w/2 hinges, 2 crossbar legs.....(M21-OSS-2)
3-PANEL w/4 hinges, 2 crossbar legs.....(M21-OSS-3)
4-PANEL w/6 hinges, 2 crossbar legs.....(M21-OSS-4)
Stock No. 22-OSS/8'0" wide x 6'0" high.
2-PANEL w/2 hinges, 2 crossbar legs.....(M22-OSS-2)
3-PANEL w/4 hinges, 2 crossbar legs.....(M22-OSS-3)
4-PANEL w/6 hinges, 2 crossbar legs.....(M22-OSS-4)
Stock No. 23-OSS/6'0" wide x 7'0" high.
2-PANEL w/2 hinges, 2 crossbar legs.....(M23-OSS-2)
3-PANEL w/4 hinges, 2 crossbar legs.....(M23-OSS-3)
4-PANEL w/6 hinges, 2 crossbar legs.....(M23-OSS-4)

OPTIONAL EQUIPMENT
Crossbar legs.....(OS70)
Casters.....(OS71)
Crossbar legs with casters.....(OS72)
View port windows.....(VPW53)

emergency blankets

Emergency blanket kits are offered in two basic types, three models. Two "tote type" kits for portable use, and a "wrap-around" type for permanent wall mounting.



TOTE TYPE—JUNIOR SIZE



TOTE TYPE—INDUSTRIAL SIZE



WRAP-AROUND TYPE

TOTE TYPE—JUNIOR SIZE: 100% wool fire-resistant blanket, 42" x 62". Pouch is 10-1/2" x 12" x 2-1/2". (JR99W)

TYPE OF BLANKET	BLANKET SIZE	POUCH SIZE	TOTE TYPE—INDUSTRIAL SIZE STOCK NO.
100% Wool, fire-resistant	62" x 84"	16" x 11" x 5"	99W
Fro-bestos	66" x 80"	16" x 11" x 5"	99A
Weld-Tex	72" x 96"	16" x 11" x 5"	99WT
TYPE OF BLANKET	**BLANKET SIZE**	**POUCH SIZE**	**WRAP-AROUND TYPE STOCK NO.**
100% Wool, fire-resistant	62" x 84"	64" x 7-1/2" x 3"	80W
Fro-bestos	66" x 80"	64" x 7-1/2" x 3"	80A
Weld-Tex	72" x 96"	64" x 7-1/2" x 3"	80WT

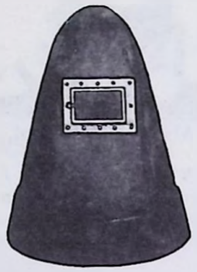
Pouch only for tote type, industrial size (T1). Kits are available in any Frommelt fabric and in special sizes. 99 (W 30) Wool Blanket only.

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AO Safety Products

SANDBLASTING HELMETS

The canvas helmet shown is our type 30.
It affords protection against rebounding abrasive. Generally used for outdoor work. A respirator should be worn under this helmet for dust protection.



Type 30 Canvas Helmet with screen.

No. 30 Canvas Helmet complete with screen .....Each $48.50

HELMETS



Operator's Air Fed Helmet

There are two types of operator's blast helmets available. For work that is performed in a blast room or other dusty places, the operator should be equipped with an air-fed mask with hood. The helmet shown in Figure 10 gives complete protection, and has received U.S. Bureau of Mines approval.

No. 10 Sandblasting Helmet complete with 15 ft. of air hose.....Each $141.00

AO 64 Air-Supplied SANDBLAST HOOD

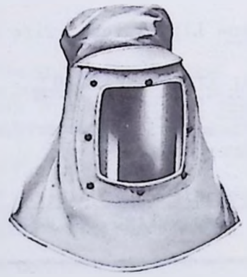


Positive protection against flying sand is provided by heavy-duty rubberized material over a lightweight, adjustable inner fiber headframe that distributes weight over shoulders. Cool and comfortable to wear, even for long periods of time, the AO 64 hood utilizes air supplied from compressed air line. Tapered shoulder bib of rubberized material fits snugly against body, is held securely with strap fastenings. Web belt (supplied with unit) supports connecting air hose. Choice of heavy-duty double wire screen window or laminated glass window shielded with wire covered screen. Either window can be quickly and easily replaced.

ORDERING INFORMATION:

64-G — Sandblast Helmet with Glass and Single Cover Screen Front Window $28.85
64-W — Sandblast Helmet with Fine Mesh Screen Front and Heavy Duty Double Wire Screen Window 29.60

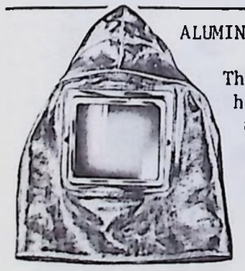
AO 65 PAINT SPRAYING HOOD



Lightweight white muslin hood provides full head and shoulder protection. Large clear acetate 8" x 8" window is replaceable. Interior tubing around head connects with outside air hose for easier breathing and ventilation. Elasticized cap fits range of head sizes.

Order Catalog No. AO 65 Paint Spraying Hood. $14.80

ALUMINIZED ASBESTOS HELMETS



This hood consists of high quality aluminized asbestos that extends to the shoulders. The front window is protected by a 30 mesh nickel plated copper screen. The front window is .060 inch clear acetate permitting wide vision. The same copper screen is used for side and rear ventilation thus providing for the comfort of the wearer.
Mining company safety personnel designed this garment to be used primarily to protect workers pouring babbitt or other hot metals. The unit is designed to be worn with any brand of head protection.

No. FS-2705-A Aluminized Asbestos Hood .....Price $84.50

AO 1X104 PAINT SPRAYING HOOD



Made of lightweight, flame-resistant duck, this hood affords excellent protection for workers in paint spraying operations or severe dust conditions. The cape extends down over the shoulders, ties under arms. Spacious 8" x 13½" clear acetate window is replaceable. Interior tube around head connects with outside air hose for easier breathing and ventilation. Elastic strap at rear of hood fits a range of head sizes comfortably.

Order Catalog No. AO 1X104 Paint Spraying Hood. $20.50

AO RESPIRATOR HOODS

AO N75 Respirator Hood



When heavy concentrations of dusts, mists, spray and splash demand an extra measure of worker protection, AO R2090N NIOSH-Certified Dust/Mist Respirator combines with a lightweight, protective AO N75 hood to provide vital respiratory protection as well as full head and shoulder coverage. The R2090N Respirator is NIOSH-approved for use against hazardous dusts and mists, including lead and other pneumoconiosis-producing dusts. Cartridges may be replaced without removing hood.

Available in black or yellow neoprene-coated cloth, duck, muslin, nylon, or aluminized asbestos, the N75 hood is sturdy, lightweight. Clear acetate window is replaceable. Double tie-strings under arms keep hood in place. Elastic strap at rear of hood permits fitting to a range of sizes.

Cat. No.	Prod. Code
N75BR	50261-Black Neoprene Coated Cloth (Hood Only)
N75FP	50262-Respirator Hood (Hood Only) Duck
N75M	50263-Respirator Hood (Hood Only) Muslin
N75N	50264-Respirator Hood (Hood Only) Nylon
N75RA	50265-Aluminized Asbestos Hood with .040" Aluminized Window
N75YR	50268-Yellow Neoprene Coated Cloth (Hood Only)

NOTE: R2090N Series Respirator, for use with above hood, must be ordered separately.

AO 76 Blaze Orange Respirator Hood



AO NIOSH-Certified R6000 Series Dual Element Respirators combine with this blaze orange vinyl-coated hood to provide excellent head, shoulder and respiratory protection.

The R6000 Series Respirators are NIOSH-Certified for use in atmospheres containing dusts, fumes, and mists; organic vapors, chlorine, hydrogen chloride, and sulfur dioxide; methyl amines; organic vapors, dusts and mists; asbestos-containing dusts and mists; radionuclides; organic vapors, and paint, lacquer, and enamel mists; and pesticides.

Respirators are available in 2 facepiece sizes, with 12 interchangeable cartridges.

The AO N76 Hood has replaceable clear plastic window, double tie-strings that secure under arms of wearer. Hood is leather-reinforced at four points for long wear. Hat or cap can be worn under hood. Blaze orange color affords high visibility. Full head and shoulder coverage. **Order Catalog No. 76, AO Blaze Orange Respirator Hood.**

Note: R6000 Respirators, for use with 76 Hood, must be ordered separately.

HOODS AND HELMETS

RESPIRATOR HOODS FOR R2000 SERIES RESPIRATORS

Cat. No.	Prod. Code	Description	
N75BR	50261	Respirator Hood Only - Black Neoprene Coated Cloth	$26.25
N75FP	50262	Respirator Hood Only - Duck	23.20
N75M	50263	Respirator Hood Only - Muslin	22.25
N75N	50264	Respirator Hood Only - Nylon	23.95
N75RA	50265	Respirator Hood Only - Aluminized Asbestos	43.50
N75YR	50268	Respirator Hood Only - Yellow Neoprene Coated Cloth	25.50
N75WAL	50267	Replacement .040" Aluminized Window for Hood	$ 5.35
N75W	50266	Replacement Window for 75 Hood	2.00
R12	51016	Replacement Headband for Respirator	.80

(For Hood with Respirator, add Price of Respirator.)

RESPIRATOR HOODS FOR R3000 AND R8000 SERIES RESPIRATORS

R195FP	51243	Respirator Hood Only - Duck	$21.50
R195M	51244	Respirator Hood Only - Muslin	21.00
R195N	51242	Respirator Hood Only - Nylon	22.50
R178	51241	Replacement Elastic Headband for Respirator	$ .95
R179	51240	Replacement Window for R195 Hood	1.90

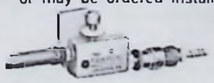
(For Hood with Respirator, Add Price of Respirator.)

RESPIRATOR HOODS FOR R5000 — R6000 SERIES RESPIRATORS

R76	50210	Respirator Hood Only - Blaze Orange Coated Nylon	$30.25
R76W	50209	Replacement Window for R76 Hood	1.90

(For Hood with Respirator, Add Price of Respirator.)

NO. 490 FRESHAIR PLENUM offers the ideal means of air conditioning Welding Helmets when smoke, heat or fumes are a problem. It supplies fresh air, in the desired amount, directly to the immediate breathing zone with Low Noise and no annoying air jets past the eyes. It is available in Kit form, or may be ordered installed on certain Helmet Models.



Price Installed.$27.00
Kit..... 25.00

The increasing concern over working conditions in high heat areas has brought about the development of new fabrics and devices to improve the comfort of the individual involved. Please contact us about your problem.

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THE TEN COMMANDMENTS OF RESPIRATORY PROTECTION

(MINIMAL ACCEPTABLE PROGRAM)*

I. WRITTEN STANDARD OPERATING PROCEDURES
Written standard operating procedures governing the selection and use of respirators *shall* be established.

II. SELECTION
Respirators *shall* be selected on the basis of hazards to which the worker is exposed.

Approved or accepted respirators *shall* be used when they are available. The respirator furnished *shall* provide adequate respiratory protection against the particular hazard for which it is designed in accordance with standards established by competent authorities.

III. TRAINING
The user *shall* be instructed and trained in the proper use of respirators and their limitations.

IV. INDIVIDUAL ISSUE
Where practicable, the respirators should be assigned to individual workers for their exclusive use.

V. CLEANING AND MAINTENANCE
Respirators *shall* be regularly cleaned and disinfected. Those issued for the exclusive use of one worker should be cleaned after each day's use, or more often if necessary. Those used by more than one worker *shall* be thoroughly cleaned and disinfected after each use.

VI. STORAGE
Respirators *shall* be stored in a convenient, clean, and sanitary location.

VII. INSPECTION
Respirators used routinely *shall* be inspected during cleaning. Worn or deteriorated parts *shall* be replaced. Respirators for emergency use such as self-contained devices *shall* be thoroughly inspected at least once a month and after each use.

VIII. WORK AREA SURVEILLANCE
Appropriate surveillance of work area conditions and degree of employee exposure or stress *shall* be maintained.

IX. MEDICAL STANDARDS
Persons should not be assigned to tasks requiring use of respirators unless it has been determined that they are physically able to perform the work and use the equipment. The local physician *shall* determine what health and physical conditions are pertinent. The respirator user's medical status should be reviewed periodically (for instance, annually).

X. PROGRAM EVALUATION
There *shall* be regular inspection and evaluation to determine the continued effectiveness of the program.

And, if you want your respiratory program to comply with current standards, don't forget this important additional commandment . . .

XI. ALWAYS SPECIFY AO NIOSH-CERTIFIED RESPIRATORS.

According to OSHA Requirements, 29 CFR Part 1910.134

AS OF MARCH 31, 1976

. . . respirators carrying the U.S. Bureau of Mines Approval do not meet the requirements set forth by the Occupational Safety and Health Act, 1970. In order to meet new federal requirements, all respirators in use from this date forward must meet the standards established by NIOSH (National Institute for Occupational Safety & Health).

PERMISSIBLE
RESPIRATOR FOR DUSTS AND MISTS

mesa NIOSH

MINING ENFORCEMENT AND SAFETY ADMINISTRATION
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

APPROVAL NO. TC-21C-166

ISSUED TO
AMERICAN OPTICAL CORPORATION
Southbridge, Massachusetts, U. S. A.

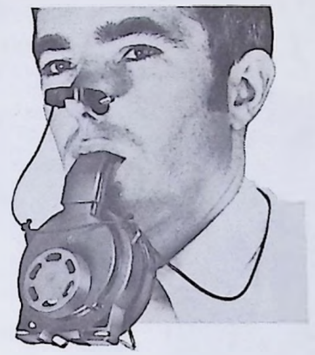
The approved assembly consists of the following AO part numbers: 51460 basic respirator subassembly, R90N (TC-21C-166) filter, and 51062 filter cover.

LIMITATIONS
Approved for respiratory protection against dusts and mists having a time weighted average not less than 0.05 milligram per cubic meter or 2 million particles per cubic foot. Not for use in atmospheres containing toxic gases or vapors or in atmospheres containing less than 19.5 percent oxygen.

CAUTION
In making renewals or repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.
Follow manufacturer's instructions for changing filters.

AO Safety Products

R9700 SERIES OF MOUTHPIECE RESPIRATORS for intermittent use



- Matchless performance. Filtering efficiency and capacity are unmatched in any other mouthpiece respirator. (Although there is not yet a Bureau of Mines schedule to cover these mouthpiece respirators, the R9721 easily passes all of the service life tests for organic vapors in Schedule 23B and dust and mist tests in Schedule 21B.)
- Complete inhalation and exhalation valve systems. New exhalation valve flap provides low resistance and perfect seal for greater comfort and safety. Inhalation valve seat design makes it impossible to reverse valve system.
- Newly-designed gasket. Rugged, leakproof gasket requires only one pound of torque to seal cartridge into R-9700.
- Almost indestructible. R-9700 body is molded of tough nylon for thinner wall thickness and lower weight. Mouthpiece is soft, pliable plastic. Built to take heavy punishment from wearer's teeth.
- Facial design. Angular construction of mouthpiece positions respirator as close to wearer's face as possible. Clears chin for comfort. Can be worn with a face shield.
- Non-corrosive. Only metal parts are the stainless steel belt clip and plastic coated nose clamp.

R9700 HEAVY-DUTY MOUTHPIECE RESPIRATORS

R9714	50814	Protection against Dusts, Mists, Organic Vapors & Gases, Ammonia Gas	$10.40
R9721	50821	Protection against Dusts, Mists, Organic Vapors & Gases	10.00
R9722	50822	Protection against Dusts, Mists, Acid Gases	10.00
R9723	50823	Protection against Dusts, Mists, Organic Vapors & Acid Gases	10.00
R9724	50824	Protection against Dusts, Mists & Ammonia Gas	11.30
R9726	50826	Protection against Dusts, Mists, Acid Gases & Ammonia Gas	10.40
R9727	50827	Protection against Dusts, Mists, Organic Vapors, Acid Gases & Ammonia Gas	10.00

REPLACEMENT FILTER CARTRIDGES

R714	51414	Replacement Cartridge for Protection against Dusts, Mists, Organic Vapors & Gases, Ammonia Gas	(Pkg. of 5) Ea.	$ 3.45
R721	51421	Replacement Cartridge for Protection against Dusts, Mists, Organic Vapors & Gases,	(Pkg. of 5) Ea.	3.45
R722	51422	Replacement Cartridge for Protection against Dusts, Mists & Acid Gases	(Pkg. of 5) Ea.	3.45
R723	51423	Replacement Cartridge for Protection against Dusts, Mists, Organic Vapors & Acid Gases	(Pkg. of 5) Ea.	3.45
R724	51424	Replacement Cartridge for Protection against Dusts, Mists & Ammonia Gas	(Pkg. of 5) Ea.	4.30
R726	51426	Replacement Cartridge for Protection against Dusts, Mists, Acid Gases & Ammonia Gas	(Pkg. of 5) Ea.	3.30
R727	51427	Replacement Cartridge for Protection against Dusts, Mists, Organic Vapors, Acid Gases & Ammonia Gas	(Pkg. of 5) Ea.	3.45

REPLACEMENT PARTS

R37	51061	Rubber Inhalation Valve Disc	(Pkg. of 20) Per Pkg.	$ 2.20
R77	51117	Nose Clamp & Nylon Cord		2.00
R78	51118	Nylon Neckstrap Cord		.45
R118	51283	Rubber Exhalation Valve Flap		.60
R148	51094	Rubber Gasket		.45
R197	51437	Inhalation Valve Seat		.55
R198	51438	Mouthpiece		1.65
R199	51439	Exhalation Valve Guard		.60
R200	51440	Belt Clip		.95
R82	51122	Plastic Mouthpiece Protector for Pocket Respirator		$ .40

R1050 Disposable Dust Respirator



Cool, convenient, comfortable



- **PROTECTION**
  NIOSH-Certified for protection against pneumoconiosis- and fibrosis-producing dusts, including - but not limited to - aluminum, asbestos, coal, flour, iron ore, and free silica.
- **COMFORT**
  Cool and lightweight as a surgeon's mask - two features that consider employee performance as well as protection.
- **CONVENIENCE**
  The only disposable dust mask that can be folded and carried in the worker's shirt pocket when not in use . . . a convenient feature that assures worker acceptance.
- **FITTING ABILITY**
  The R1050 mask can be form-fitted to the wearer's nose for greater working comfort, even with safety glasses or goggles. Rugged stitched construction of woven elastic headstraps prolongs strap life, helps retain tension without binding or stretching out of shape.
- **LOW BREATHING RESISTANCE**
  Filter design permits easier breathing, allows audible conversation in a normal voice.

ORDERING INFORMATION

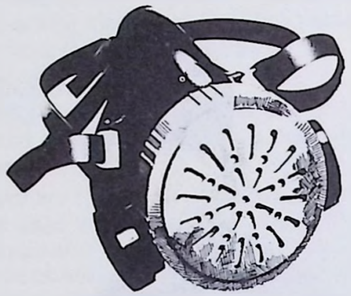
Product Code	Catalog Number	Description
50217	R1050	Disposable Dust Resplrator

NOTE: Orders Accepted in Case Lots Only. (Case of 500) Per Case $310.00

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asbestosclaims.law/library/21542/6

AO Safety Products

AO R2090N Dust/Mist Respirator NIOSH-Certified



- Compact size permits comfortable fit and improved field of vision
- Soft, rubber facepiece provides adequate clearance for safety glasses or goggles
- Adjustable rubber headband has convenient two-point suspension
- Double exhalation valve system makes breathing easier
- Filters are easily replaceable
- Many parts are interchangeable with other AO respirators
- Easily disassembled for cleaning

The new AO R2090N Dust/Mist Respirator combines lightweight wearing comfort with dependable protection in atmospheres containing hazardous dusts and mists, including lead, and other pneumoconiosis-producing dusts.

RESPIRATOR

Cat. No.	Prod. Code	Description	
R2090N	50041	Respirator (TC-21C-166)	$ 7.20

REPLACEMENT FILTERS FOR 2090N

R90N	51276	Filters (Pkg. of 5) Per Pkg.	$ 1.75
R90N	51278	Filters (Pkg. of 50) Per Pkg.	14.50

REPLACEMENT PARTS FOR 2090N SERIES RESPIRATOR

R11	51013	Knitted Cotton Face Covers (Pkg. of 50) Per Pkg.	$ 9.00
R37	51061	Rubber Inhalation Valve Disc (Pkg. of 20) Per Pkg.	2.20
R38	51062	Filter Cover	.80
R44	51072	Adapter Ring	.80
R111	51015	Replacement Rubber Headband	.90
R234	51460	Facepiece	2.20
R235	51377	Exhalation Valve Seat	.75
R236	51378	Exhalation Valve Flap (Pkg. of 10) Per Pkg.	6.05
R237	51379	Exhalation Valve Cover	.60

*= Denotes in these Columnar Headings Respirator Is Sold In Packages of Ten (10).

CAUTION: The R2090N Respirator **Should not be used** in atmospheres containing less than 19.5% oxygen, or in atmospheres containing toxic gases or vapors.

The Bureau of Mines establishes standards for respiratory protection. Each model manufactured by American Optical is tested for BM approval when applicable.

AO R6099 AIRLINE Respirator NIOSH-Certified

lets him breathe free and easy

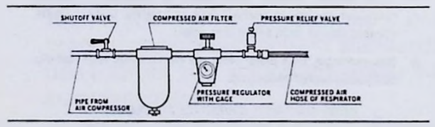


GENERAL FEATURES

- Low applied air pressure ranges for various lengths of hose
- Air flow control valve provides adequate supply of air to respirator facepiece, even in closed position.
- Double exhalation valve system offers low resistance to air flow, reduced noise level
- Breathing tube cannot be accidentally kinked or closed
- Headband permits respirator facepiece to be "parked" on wearer's chest when respirator is not in use
- Respirator is easily assembled and disassembled

IMPORTANT: The purity of the supply of compressed air is the responsibility of the user. A compressed air filter that will remove oil, water, and particulate; a pressure regulator that will reduce air pressure to specified ranges; and a pressure relief valve as a safety control, should be used

THE AO NIOSH-certified AIRLINE Respirator is a countinuous-flow, air-supplied unit that protects workers against most dusts, welding fumes, sprays, mists, vapors, gases, and combinations of these contaminants. Air is fed continuously to the facepiece from an external source, such as a compressor, providing a constant positive pressure that prevents inward leakage of the contaminated outside atmosphere. Because the air pressure in continuous, but gentle, the respirator can be worn comfortably for prolonged periods of time.



R6099 AIRLINE RESPIRATOR SERIES

Cat. No.	Prod. Code	Description	
R6099	50730	Airline Respirator w/o Air Hose (TC-19C-86)	$53.00

Note: The U.S. Bureau of Mines approval on this device is valid only when approved parts, including Air Supply Hose, are used. Order unit as shown above specifying Hose lengths below.

AIR SUPPLY HOSE

56030	56030	Air Supply Hose w/Fittings, 12½'	$13.90
56031	56031	Air Supply Hose w/Fittings, 25'	23.95
56032	56032	Air Supply Hose w/Fittings, 50'	44.00

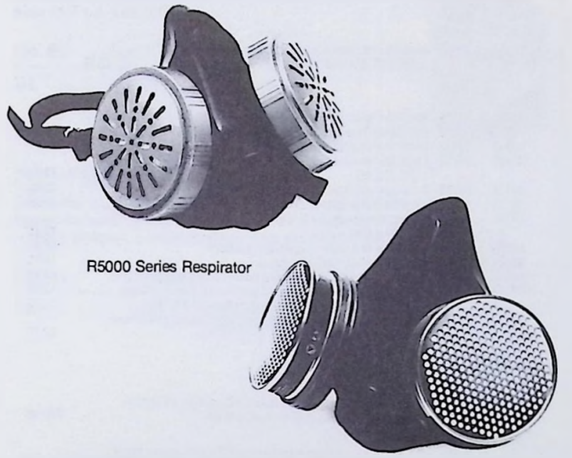
REPLACEMENT PARTS

R41A	51066	Exhalation Valve Seat	.70
R45	51075	Exhalation Valve Cover	.60
R97	51147	Breathing Tube	7.05
R231	50735	Rubber headband (4 point suspension for R6000 series)	1.90
R230	51290	Elastic headband (4 point suspension for R6000 series)	1.50
R115	51280	Breathing Tube Clamp	.45
R116	51281	Air Control Valve	34.50
R117	51282	Rubber Facepiece	5.25
R41B	51067	Exhalation Valve Flap (Pkg. of 10) Per Pkg.	6.05
R119	51284	Quick Connect Coupling	12.00
R123	51288	Facepiece Adaptor Tube	3.15
R181	51289	Breathing Tube Spring	1.00
56016	56016	Belt Assembly	4.30
56040	56040	Compressed Air Filter Assembly	53.00
56041	56041	Replacement Carbon Filter Tube	4.30
56042	56042	Pressure Regulator & Gauge	19.50
56043	56043	Pressure Gauge	3.65
56044	56044	Shut-Off Valve	5.65
56045	56045	Pressure Relief Valve, Preset at 35 psig	7.60

AO Safety Products

R5000 and R6000 Series Dual Element Respirators with Interchangeable Filters and Cartridges.

And you also get a choice of facepiece sizes!



R5000 Series Respirator

R6000 Series Respirator

Full range of face sizes; The R5000 Series is designed for *small* and *medium* face sizes; the R6000 Series for *larger* faces.

Ten interchangeable filters and cartridges make both the R5000 and the R6000 Series effective against the same broad range of respiratory hazards.

Adjustable headbands featuring four point suspension.

Soft rubber facepiece contour-designed to fit face snugly for greater assurance against leakage.

Low-resistance filters, cartridges, and valves minimize breathing fatigue.

Respirators fit low on the nose to provide large field of vision, adequate clearance for safety glasses or goggles.

Easily disassembled for cleaning or sanitizing.

Interchangeable Filters and Cartridges

"R5000 SERIES" DUAL CARTRIDGE RESPIRATORS

Cat. No.	Prod. Code	Description	
R5030	50112	Protection against Ducts and Mists (with 4 extra Filters) (TC-21C-144)	$ 9.15
R5051	50101	Protection against Organic Vapors (TC-23C-56)	11.80
R5051P	50102	Paint Spray Respirator with Detachable Prefilters (TC-23C-94)	12.25
R5052	50103	Protection against Acid Gases (TC-23C-60)	11.80
R5053	50104	Protection against Combined Acid and Organic Gases (TC-23C-82)	11.80
R5054	50105	Protection against Ammonia Gas (TC-23C-109)	11.80
R5055	50106	Protection against Combined Organic Vapors, Dusts and Mists (TC-23C-83)	11.80
R5056	50107	Protection against Dusts, Mists and Fumes (TC-21C-161)	11.80
R5057	50108	Protection against highly Toxic Dust, Mist, Fumes and Radioactive Particulate Matter (TC-21C-160)	12.50
R5058	50109	Protection against highly Toxic Insecticides (TC-23C-106)	10.45
R5088	50110	Protection against Metallic Mercury Vapors, Dusts and Mists	12.10
R5089	50111	Protection against Dusts, Mists, Fumes, Organic Vapors and Metallic Mercury Vapors	14.80
R5091P	50113	Paint Spray Respirator and Built-In Prefilters (TC-23C-97)	12.25
R5093	50118	Protection against Dusts, Mists, Chlorine Gas and Mercury Vapors	13.30
R5114	50012	Protection against Ammonia and Organic Vapors	12.00
R5180	50015	Protection against Organic Vapors and Acid Gases	13.10
R5561	50114	Protection against Dusts, Mists, Fumes and Organic Vapors	13.10
R5562	50115	Protection against Dusts, Mists, Fumes and Acid Gases	13.10
R5563	50116	Protection against Dusts, Mists, Fumes, Organic Vapors and Acid Gases	13.10
R5564	50117	Protection against Dusts, Mists, Fumes and Ammonia	14.50

"R6000 SERIES" DUAL CARTRIDGE RESPIRATORS

Cat. No.	Prod. Code	Description	
H6030	50601	Protection against Dusts & Mists (with 4 Extra Filters) (TC-21C-145)	$ 9.15
H6051	50602	Protection against Organic Vapors (TC-23C-57)	11.80
R6051P	50603	Paint Spray Respirator with Detachable Prefilters (TC-23C-95)	12.25
R6052	50604	Protection against Acid Gases (TC-23C-61)	11.80
R6053	50605	Protection against Combined Acid and Organic Gases (TC-23C-82)	11.80
R6054	50606	Protection against Ammonia (Gas) (TC-23C-109)	11.80
R6055	50607	Protection against Combined Organic Vapors, Dusts and Mists (TC-23C-83)	11.80
R6056	50608	Protection against Dusts, Mists and Fumes (TC-21C-161)	11.80
R6057	50609	Protection against highly Toxic Dust, Mist, Fumes and Radioactive Particulate matter (TC-21C-160)	12.50
R6058	50610	Protection against highly Toxic Insecticides (USDA Listed) (TC-23C-106)	10.45
R6088	50611	Protection against Metallic Mercury Vapors, Dusts and Mists	12.10
R6089	50612	Protection against Dusts, Mists, Fumes, Organic Vapors and Metallic Mercury Vapors	14.80
R6091P	50613	Paint Spray Respirator with Built-in Prefilters (TC-23C-98)	12.25
R6093	50618	Protection against Dusts, Mists, Chlorine Gas and Mercury Vapors	13.30
R6114	50802	Protection against Ammonia and Organic Vapors	12.00
R6180	50803	Protection against Organic Vapors and Acid Gases	13.10
R6561	50614	Protection against all Dusts, Mists, Fumes and Organic Vapors	13.10
R6562	50615	Protection against all Dusts, Mists, Fumes and Acid Gases	13.10
R6563	50616	Protection against all Dusts, Mists, Fumes, Organic Vapors and Acid Gases	13.10
R6564	50617	Protection against all Dusts, Mists, Fumes and Ammonia	14.50

REPLACEMENT FILTERS AND CARTRIDGES FOR R5000, AND R6000 SERIES RESPIRATORS

Cat. No.	Prod. Code	Description	
R30	51048	Dust and Mist Filters (Pkg. of 10) Per Pkg.	$ 2.55
R30	51052	Dust and Mist Filters (Pkg. of 50) Per Pkg.	$10.35
R49	51078	Paint Spray Prefilters (Pkg. of 10) Per Pkg.	$ 6.40
R51	51081	Replacement Cartridge for protection against Organic Vapor (Pkg. of 10) Ea.	$ 1.90
R52	51082	Replacement Cartridge for protection against Acid Gases (Pkg. of 10) Ea.	1.90
R53	51083	Replacement Cartridge for protection against Organic Vapor and Acid Gases (Pkg. of 10) Ea.	1.90
R54	51084	Replacement Cartridge for protection against Ammonia Gas (Pkg. of 10) Ea.	2.40
R55	51085	Replacement Cartridge for protection against Organic Vapor, Dusts and Mists (Pkg. of 10) Ea.	1.90
R56	51086	Replacement Cartridge for protection against Dusts, Mists and Fumes (Pkg. of 10) Ea.	$ 1.75
R57	51087	Super Micro-Toxisol Replacement Filter Cartridge for Dusts, Fumes, Mists, and Radioactive particles (Pkg. of 10) Ea.	2.75
R58	51088	Replacement Filter Cartridge for protection against Highly Toxic Insecticides (Pkg. of 10) Ea.	$ 1.40
R88	51128	Replacement Cartridge for protection against Metallic Mercury Vapors, Mists, Dusts (Pkg. of 10) Ea.	2.40
R89	51129	Replacement Cartridge for protection against Dusts, Mists, Fumes, Metallic Mercury Vapors and Organic Vapors (Pkg. of 10) Ea.	$ 1.20
R91	51135	Replacement Cartridges for protection against Dusts, Mists, Organic Vapors and Paint Sprays (Pkg. of 10) Ea.	$ 2.20
R93	51150	Replacement Cartridge for protection against Dusts, Mists, Chlorine Gas and Mercury Vapors (Pkg. of 10) Ea.	$3.10
R114	51314	Replacement Cartridge for protection against Ammonia and Organic Vapors (Pkg. of 10) Ea.	2.65
R180	51216	"Super" Cartridges for protection against Organic Vapors and Acid Gases (Pkg. of 10) Ea.	2.60
R561	51201	Replacement Filter Cartridge for protection against Dusts, Mists, Fumes and Organic Vapors (Pkg. of 10) Ea.	$2.60
R562	51202	Replacement Filter Cartridge for protection against Dusts, Mists, Fumes and Acid Gases (Pkg. of 10) Ea.	2.85
R563	51203	Replacement Filter Cartridge for protection against Dusts, Mists, Fumes, Organic Vapors and Acid Gases (Pkg. of 10) Ea.	2.90
R564	51204	Replacement Filter Cartridge for protection against Dusts, Mists, Fumes and Ammonia (Pkg. of 10) Ea.	3.80

REPLACEMENT PARTS FOR R5000 AND R6000 SERIES RESPIRATORS

R37	51061	Rubber Inhalation Valve Disc (Pkg. of 20) Per Pkg.	$2.20
R38	51062	Filter Cover	.80
R41	51065	Exhalation Valve Seat and Flap	1.30
R41A	51066	Exhalation Valve Seat	.70
R41B	51067	Exhalation Valve Flap (Pkg. of 10) Per Pkg.	6.05
R42	51070	Rubber Gasket	.50
R44	51072	Adaptor Ring	.80
R45	51075	Exhalation Valve Guard	.60
R65	51105	Auxiliary Filters, Unwoven Textile (Per Pkg of 200) Per Pkg	5.50
R66	51106	Steel Auxiliary Filter Clamp	.40
R74	51114	Knitted Cotton Face Cover	.40
R231	50735	Rubber headband (4 point suspension for R6000 Series)	1.90
R230	51290	Elastic headband (4 point suspension for R6000 Series)	1.50
R232	50736	Rubber headband (4 point suspension for R5000 Series)	1.90
R220	51292	Elastic headband (4 point suspension for R5000 Series)	1.50
R185	51223	Rubber Auxiliary Filter Clip for R51 Style Cartridge	.45
R186	51224	Rubber Auxiliary Filter Clip for R52 Style Cartridge	.45
R74	51115	Knitted Cotton Face Cover (Pkg. of 50) Per Pkg.	$9.50

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AO Safety Products

AO R8000 Series Single Element Respirators protect against dusts, mists, fumes, organic vapors, acid gases and paint sprays



MULTIPLE PROTECTION IN A SINGLE ELEMENT RESPIRATOR

- *Compact, comfortable single element design*
- *Each single element respirator has the same service life as a dual element respirator, but less expensive*
- *Contoured facepiece provides snug, comfortable fit*
- *Facepiece pretested to fit a range of sizes*
- *Filters and cartridges are mounted off-center for unobstructed vision*
- *Adjustable headband with four-point suspension*
- *Valve system minimizes breathing fatigue*
- *Easily disassembled for cleaning and sanitizing*
- *Many parts interchangeable with AO R5000-R6000 Series Respirators*

R100 Filters, Dusts and Mists
TC-21C-162



R151 Cartridges, Organic Vapors
TC-23C-84



R151 Cartridges w/R149 Prefilter, Organic Vapors and Paint Spray
TC-23C-93



R156 Cartridges, Dusts, Fumes, and Mists
TC-21C-169



R153 Cartridges, Organic Vapors and Acid Gases
TC-23C-85



R191 Cartridge w/Permanently attached Prefilter, Organic Vapors and Paint Spray
TC-23C-92



NIOSH-Certified Cartridges and Filters for R8000 Series Single Element Respirators

R8000 SERIES SINGLE CARTRIDGE RESPIRATORS

Cat. No.	Prod. Code	Description	
R8100	50750	Respirator for protection against Dusts & Mists with 5 extra filters (TC-21C-162)	$8.65
R8151	50751	Respirator for protection against Organic Vapors (TC-23C-84)	$11.25
R8151P	50752	Paint Spray Respirator with detachable Prefilter (TC-23C-93)	11.70
R8152	50753	Respirator for protection against Acid Gases	11.25
R8153	50754	Respirator for protection against Organic Vapors and Acid Gases (TC-23C-85)	11.25
R8154	50755	Respirator for protection against Ammonia	12.00
R8155	50756	Respirator for protection against Organic Vapors, Dusts & Mists	11.25
R8156	50757	Respirator for protection against Dusts, Mists & Fumes (TC-21C-169)	11.25
R8158	50759	Respirator for protection against Insecticides	10.45
R8175P	50765	Electrostatic Paint Spray Respirator	12.25
R8184	50310	Respirator for protection against Ammonia & Organic Vapors	11.25
R8188	50760	Respirator for protection against Dusts, Mists & Mercury Vapors	11.50
R8191P	50763	Paint Spray Respirator with built-in Prefilters (TC-23C-92)	11.70
R8193	50768	Respirator for protection against Dusts, Mists, Mercury Vapor and Chlorine Gas	12.70
R8190	50771	Respirator for protection against Radon Daughters, and Radon Daughters Attached to Dusts, Fumes, Mists	$10.00

REPLACEMENT FILTERS AND CARTRIDGES FOR R8000 SERIES

R100	51301	Dust and Mist Filters for R8100 Respirators (Pkg. of 5) Per Pkg.	$ 2.00
R100	51302	Dust and Mist Filters for R8100 Respirators (Pkg. of 50) Per Pkg.	$20.00
R149	51349	Paint Spray Pre-filters for use on R8151P, R8175P Respirator (Pkg. of 10) Per Pkg.	7.50
R151	51170	Replacement Cartridge for protection against Organic Vapors (Pkg. of 5) Ea.	$ 3.45
R152	51352	Replacement Cartridge for protection against Acid Gases (Pkg. of 5) Ea.	3.45
R153	51353	Replacement Cartridge for protection against Organic Vapors and Acid Gases (Pkg. of 5) Ea.	3.45
R154	51354	Replacement Cartridge for protection against Ammonia (Pkg. of 5) Ea.	4.00
R155	51172	Replacement Cartridge for protection against Organic Vapors, Dusts and Mists (Pkg. of 5) Ea.	3.45
R156	51171	Replacement Cartridge for protection against Dusts, Mists & Fumes (Pkg. of 5) Ea.	3.45
R158	51358	Replacement Cartridge for protection against Insecticides (Pkg. of 5) Ea.	3.10
R175	51236	Replacement Cartridge for R8175P Respirator (Pkg. of 5) Ea.	3.45
R184	51156	Replacement Cartridge for protection against Ammonia and Organic Vapors (Pkg. of 5) Ea.	3.45
R188	51388	Replacement Cartridge for protection against Dusts, Mists and Mercury Vapors (Pkg. of 5) Ea.	3.75
R191	51391	Replacement Cartridge for R8191P Respirator (Pkg. of 5) Ea.	4.05
R193	51393	Replacement Cartridge for protection against Dusts, Mists, Chlorine Gas and Mercury Vapors (Pkg. of 5) Ea.	5.15
R190	51390	Replacement Filter Cartridge for Radon Daughters and Radon Daughters Attached to Dusts, Mists and Fumes (Pkg. of 10) Ea.	$ 2.80
R37	51061	Rubber Inhalation Valve Disc (Pkg. of 20) Per Pkg.	$2.20
R41A	51066	Exhalation Valve Seat	.70
R41B	51067	Exhalation Valve Flap (Pkg. of 10) Per Pkg.	6.05
R45	51075	Exhalation Valve Guard	.60
R61	51091	Knitted Cotton Face Cover	.35
R111	51015	Rubber headband (2 point for BM approved units)	.90
R112	51312	Elastic headband (2 point for BM approved units)	.90
R232	50736	Rubber headband (4 point for NIOSH approved units)	1.90
R220	51292	Elastic headband (4 point for NIOSH approved units)	1.50
R146	51069	Adaptor Ring	1.30
R147	51347	Filter Cover	.95
R148	51094	Rubber Gasket	.45
R150	51350	Rubber Auxiliary Filter Clamp for R151 Style Cartridge	.60
R159	51359	Auxiliary Filters (Pkg. of 100) Per Pkg	4.95
R187	51225	Rubber Auxiliary Filter Clip for R152 Style Cartridge	.60
R192	51237	Respirator Face Shield	2.10
R204	51228	Headband for R8175P	1.50
R221	51293	Rubber Exhalation Valve Cover (R8190 Only)	.75
R61	51092	Knitted Cotton Face Cover (Pkg. of 50) Per Pkg	$8.50

AO Safety Products

SKIN PROTECTORS

Dry or water-based irritants, mild industrial acids and chemicals won't harm hands and skin guarded by AO SAFETICOTE® SKIN PROTECTORS. Here's the easy, convenient way to maximum skin protection — rub on Safeticote Cream and you have an invisible barrier against skin irritants. Hands are comfortable, too. Safeticote Creams are not slippery, and leave no greasy or waxy feeling to impair touch sensitivity. Safeticote products contain no ingredients to irritate or sensitize normal skin, and are easily removed after use with soap and warm water.

111 ANTI-FOG PASTE

Anti-fog paste, made from a scientific formula to penetrate the microscopic pores of glass, deposits a thin film which prevents fogging, steaming and frosting of all types of glass surfaces. In addition, it removes grease and dirt from glass and allows perfect visibility. Non-abrasive, harmless to skin, glass or fabric. Easily applied. Recommended for use on lenses, face shields and plates. Available in 1 oz. jars only.



Cat. No.	Prod. Code	Description
111	83687	Anti-Fog Paste

750F LENS CLEANING FLUID

Contains excellent cleansing agent, not anti-fog type. Spray on lens — wipes clean instantly. Regularly supplied in pint bottles, concentrated. Dilutes with 7 pints water.



Cat. No.	Prod. Code	Description
750F	83655	Lens Cleaning Fluid, 1 Pint, (Concentrated)

101 GERMICIDAL DETERGENT

Recommended for cleaning personal safety equipment such as respirators, goggles, helmets, etc., 101 cleans and sanitizes in one operation. It removes dirt and deposited skin oils without corroding, staining or deteriorating the rubber, plastic, glass or metal parts of the item being cleaned. Is completely odorless.

Can be used as a spray, swabbing or immersion solution. Prewashing and after-rinse not required unless item is heavily soiled.

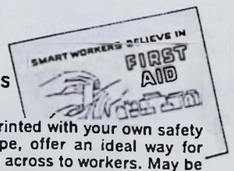
Available as a liquid concentrate in 2 oz. bottles (cartons of 10 only), or in 1 gal. containers. Two ounces of 101 make one gallon of germicidal detergent. Just add water.

U.S.D.A. Reg. No. 2628-1



Cat.	Prod. Code	Description
101	83730	Germicidal Detergent, Concentrate, 1 gal. container
101	83731	Germicidal Detergent, Concentrate, 2 oz. container (carton of 10)

300 SAFETY CLEANER CLOTHS



These lens cleaner cloths, imprinted with your own safety message and company logotype, offer an ideal way for you to get your safety message across to workers. May be distributed in pay envelopes, lunchrooms, at time clocks, during special occasions, etc. Large size (5-7/8" x 7-1/2"). Available either plain or silicone treated which aids in cleaning. When ordering specify color (green, pink or tan) and design (A, B, C or D). Also available with holiday scenes for promoting off-the-job safety.

Cat. No.	Prod. Code	Description
300	83706	Lens Wiping Cloth



SAFETICOTE SKIN PROTECTOR

Recommended for mechanics, machinists, print shop workers, or any type of work where non-water-based irritants are used. Safeticote Skin Protector has no unpleasant or strong odors, is mildly antiseptic — will not roughen or chap sensitive skin, or impair the sense of touch.

Protects against dry or non-water-based irritants.

Cat. No.	Prod. Code	Description
83734	83734	Safeticote Skin Protector, 16 oz. container (ctn. of 12)
83744	83744	Safeticote Skin Protector, 6 oz. tube (ctn. of 12)

SAFETICOTE WATERPROOF SKIN PROTECTOR

Recommended for workers in chemical plants, electroplating, battery, and metal working shops. Safeticote Waterproof Skin Protector is creamy and soft in texture, clean-white in color, disappears when rubbed into skin, leaving an invisible barrier against water-borne irritants, dilute acids and caustics. Non-toxic and non-allergenic, it's mild and safe enough for constant use, even on sensitive skin.

Protects against irritants with water bases, and those with high water content.

Cat. No.	Prod. Code	Description
83735	83735	Safeticote Waterproof Skin Protector, 16 oz. container (ctn. of 12)
83745	83745	Safeticote Waterproof Skin Protector, 6 oz. tube (ctn. of 12)

SAFETICOTE SKIN CONDITIONER

Safeticote Skin Conditioner is an industrial cold cream for use in relieving rough, chapped skin. Fortified with silicones, rich in lanolin, it serves as a barrier against many irritants, dirt and bacteria. Easily applied, it rubs in quickly and is cool and soothing to skin.

Cat. No.	Prod. Code	Description
83736	83736	Safeticote Skin Conditioner, 16 oz. container (ctn. of 12)
83746	83746	Safeticote Skin Conditioner, 6 oz. tube (ctn. of 12)

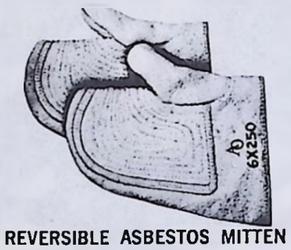
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AMERICAN OPTICAL GLOVES AND MITTENS



3003 ONE-FINGER MITTEN

One-finger mitten with one-piece back and palm. Reinforcing leather strap around crotch of thumb. Back of hand lined. 14" long. per pair.....$ 9.70



6X250 REVERSIBLE ASBESTOS MITTEN

Palm reinforced with asbestos and heavily quilted. Fiber glass insulation between palm patch and base mitten. Completely lined. 12" long. For use where protection from abrasion, plus heat, is required.
per pair.....$ 13.90

6X267 REVERSIBLE ASBESTOS MITTEN

Palm reinforced with asbestos, and cross stitched. Double thickness of fiber glass insulation between patch and base mitten. Completely lined with heavy lining. 12" long. per pair.....$ 14.60



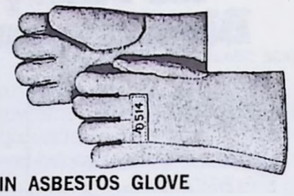
6X212 REVERSIBLE MITTEN

Heavy asbestos with complete liner. Thumb face reinforced with leather. Fits either hand. For use where protection is required for high current welding. 12" long. per pair.....$ 7.30



FULL MITTEN

6X317: One-piece aluminized asbestos back and specially chrome-tanned leather palm. Reinforcing leather strap around crotch of thumb. Full lining . . . mitten approx. 13½" long .....$ 10.80

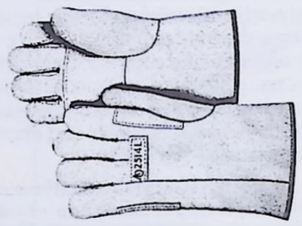


514 PLAIN ASBESTOS GLOVE

14" long. —————————$ 7.65

511 Short Glove: Same, but 11" long.———$ 7.00

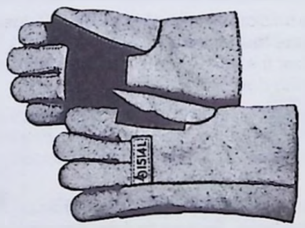
523 Long Gauntlet Glove: Same, but 23" long. (Add letter "L" for lining)—————————$ 15.00



2514 ASBESTOS REINFORCED ASBESTOS GLOVE

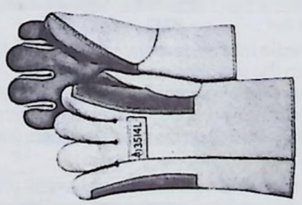
Reinforced on underside of palm and thumb with asbestos. 14" long. per pair.....$ 8.55

2523 Long Gauntlet Glove: Same, but 23" long. (Add letter "L" for lining) .....$ 15.70



1514 LEATHER REINFORCED ASBESTOS GLOVE

Reinforced on palm and thumb with specially chrome-tanned split cowhide leather, specially tanned to resist heat. 14" long. $ 9.90



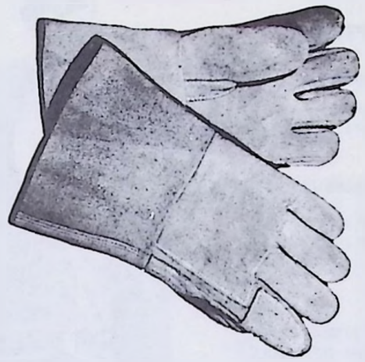
3514 FULL LEATHER REINFORCED ASBESTOS GLOVE

Reinforced from wrist to tips of fingers on palm side with special chrome-tanned cowhide split leather. Part of thumb covered with leather. per pair $ 11.35

3511 Short Glove: Same, but 11" long. ....$ 11.00

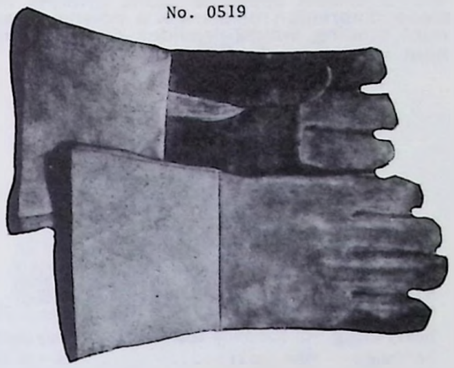
WELDORS' GLOVES AND MITTENS

MARS SPECIAL



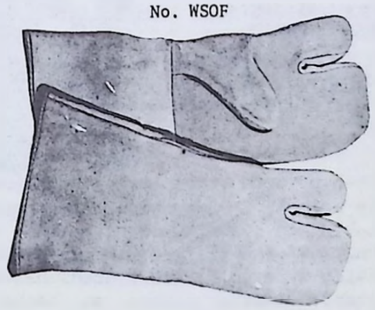
"Weldors' Extra Durable" made of selected chrome tanned side split cowhide leather. All inseam construction, seamless index finger. Fleece lined palm and back, leather thumb strap, leather welting in front seam of two middle fingers. Unlined 5 inch leather gauntlet. Large and comfortable. Glove length 13 in.
MARS SPECIAL Weldors' Gloves.....per Pair 5.25

No. 0519



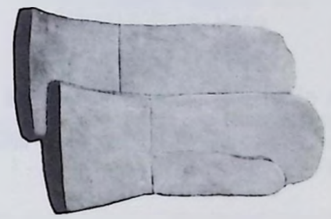
Best quality, heavy weight Carpincho "Clute cut pattern" all leather weldor"s glove. Seamless index finger. Inseam back. Lined leather gauntlet, sewed inseam, leather thumb strap. Roomy and comfortable to wear. Glove length 14 inches.
No. 0519 Weldors' Gloves.....per Pair 7.40

No. WSOF

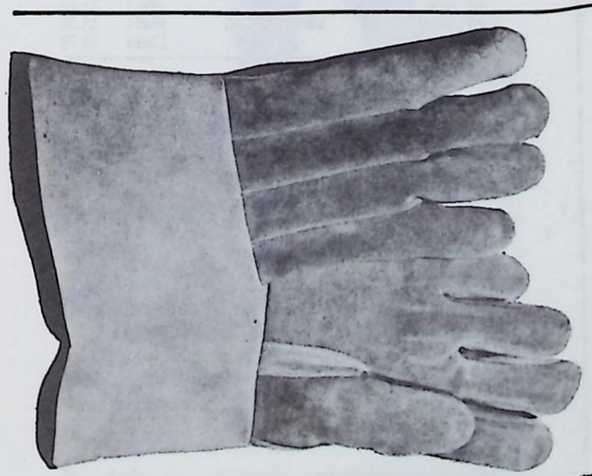


Deluxe one finger mitten. Top quality chrome tanned, side split cowhide leather. Wing thumb; continuous one piece leather back. Fleece lined back, inset leather forcet in crotch of single finger. Lined 5 inch leather gauntlet. Continuous leather welting around top seam of single finger and down outside seam to gauntlet; also around entire seam of thumb. Large and comfortable to wear. Mitten length 14 inches.
No. WSOF Weldors' Mittens.....per Pair 5.75

No. 13



These mittens are made of selected chrome tanned, side split cowhide leather. All leather back, lined leather gauntlet. Sewed inseam, fleece lined back, continuous leather welting around entire seam of mitten and thumb. Comfortable and easy to wear. Mitten length 15 inches.
No. 13 Weldors' Mittens.....per Pair 5.75



MESABI SPECIAL WELDING GLOVE

This deluxe clute pattern welding glove is the finest quality glove we have developed in our 53 years. It is constructed of hand selected buffed cowhide with red buffed palm and back. The extra wide and long length cowhide gauntlet is grain buffed cowhide. The glove is fully lined making for excellent welder appeal.

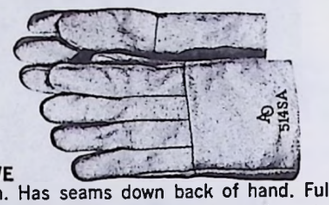
If you are encountering welding glove problems with wearing qualities or workmanship or if your present gloves are uncomfortable, the MESABI SPECIAL is the answer for you.

Price $9.00 pr.

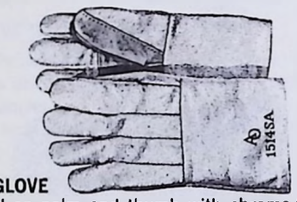
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AO SILVABESTOS GLOVES AND MITTENS

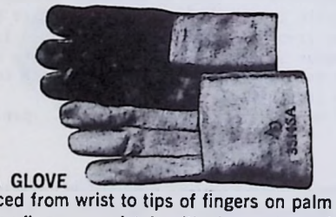
AO Silvabestos material provides industry with a coated asbestos fabric offering increased abrasion resistance. a powdered aluminum coating which provides 40% radiant heat reflection.



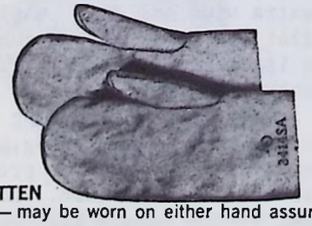
514SA GLOVE
Clute pattern. Has seams down back of hand. Full heavy lining. For handling sharp, rough or oily parts.
14" long. per pair.....$ 9.60
511SA: Same, 11" long. .....$ 8.75



1514SA GLOVE
Reinforced on palm and thumb with chrome-tanned split leather. Full heavy lining for added insulation.
14" long. per pair.....$ 12.15



3514SA GLOVE
Reinforced from wrist to tips of fingers on palm side and index finger completely with chrome-tanned split leather. Part of thumb back covered with leather. Full heavy lining. 14" long. per pair.....$ 14.15



3414SA MITTEN
Reversible — may be worn on either hand assuring double wear. Full heavy lining, 14" long.... $ 7.90
3411SA: Same, 11" long. per pair.... $ 6.65

AMERICAN OPTICAL PROTECTIVE CLOTHING



APRONS

REGULAR—ALUMINIZED ASBESTOS

142RA	24" × 42"	$22.00
148RA	24" × 48"	24.80

SPLIT LEG—ALUMINIZED ASBESTOS

2142RA	24" × 42"	$23.00
2148RA	24" × 48"	25.90

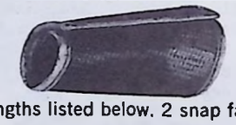
TECHNICOOL™ APRONS—ALUMINIZED FIBERGLASS

130RF	24" × 30"	$18.15
136RF	24" × 36"	20.25
142RF	24" × 42"	21.85
148RF	24" × 48"	24.45

TECHNICOOL™ APRONS—SPLIT LEG ALUMINIZED FIBERGLASS

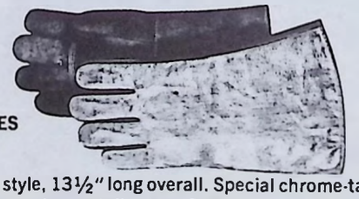
2142RF	24" × 42"	23.00
2148RF	24" × 48"	25.70

Bib-type apron, hemmed on all sides, double stitched. Adjustable web straps. Available in aluminized asbestos and "Technicool" (aluminized fiberglass). Split-leg type (not illustrated) has two adjustable leather straps on backs of legs.



SLEEVES
Standard in lengths listed below. 2 snap fasteners at wrist.

Length	Aluminized Asbestos		Aluminized FIBERGLASS	
12" long			12RF)	$10.35
14" long			14RF)	11.65
18" long	18RA	$14.55	18RF)	14.30
23" long			23RF)	18.70



GLOVES
Gunn style, 13½" long overall. Special chrome-tanned leather palm and fingers. Seam at base of fingers double-stitched, flat seam for additional comfort. One-piece aluminized asbestos back, or aluminized wool back. All leather thumb. Furnished with full lining throughout.
5X357: Gunn Style..... $ 11.90
5X358: Montpelier Style..... $ 13.25

AO WELDERS' CLOTHING



208BCL CAPE SLEEVE WITH DETACHABLE BIB
Chrome-tanned leather, protects arms, chest and shoulders. Ends of seams reinforced with steel staples. Replaceable bib attached to front of cape with snap fasteners. Anchor button on each armpit prevents cape from unbuttoning..... $27.30

SUIT SIZES	34-36	38-40	42-44	46-48	50
ORDERING SIZES	Small	Medium	Large	X Large	XX Large

208CL: Cape only, without bib.....$22.45

C-208B: Cape, sleeve and bib. Lightweight Chocolate Brown Leather. $36.10



205CL PANTS
Chrome-tanned cowhide. Has belt loops, suspender buttons, duck-lined waist band. Trousers 24" at bottom. 11" welding rod pocket, left side; side pocket.
Specifications: Allow 2" over regular pants waist measurement. $48.05

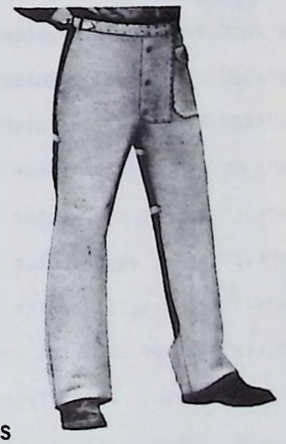
Standard Leg Length	29"
Standard Waist Sizes	30" — 32" — 34"
	36" — 38" — 40"
	42" — 44" — 46"
	48"



206CL COAT
Chrome-tanned cowhide leather. Complete protection for upper part of body. Collar can be turned up to protect neck. Snap fastener adjustment on cuffs assure snug fit. 26" length with side pocket..... $37.90

SUIT SIZES	ORDERING SIZES
34-36	Small
38-40	Medium
42-44	Large
46-48	X Large
50	XX Large

204CL Coat: Same as 206CL except 30" in length.$41.90



210CL CHAPS
Chrome-tanned leather. Provides frontal protection from waist to feet. Held securly in place by two leather straps around back of leg, full-circle construction at leg bottom. Leather pocket with flap in front, leather belt.....$24.50
Specifications: Standard Leg Length 29"

	Small	Medium	Large
Standard Sizes	32"-36"	38"-40"	42"-46"

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AO WELDERS' CLOTHING

AO APRONS

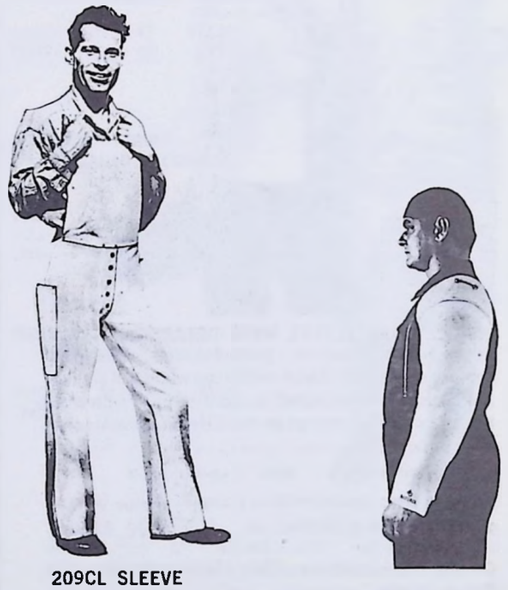


AO aprons protect the body against sparks, heat, cuts and abrasions encountered in such operations as grinding, tending blast furnaces, bench work and drill press work. They are available in a variety of sizes and materials as shown in the table below.

30F	29"x30" Fire Resisting Duck,Reg.	$3.80
36F	29"x36" Fire Resisting Duck,Reg.	4.10
42F	29"x42" Fire Resisting Duck,Reg.	4.55
48F	29"x48" Fire Resisting Duck,Reg.	5.10
130PP	29"x30" Fyre-Free, Regular	4.20
136PP	29"x36" Fyre-Free, Regular	4.70
142PP	29"x42" Fyre-Free, Regular	5.35
130A	24"x30" Asbestos, Regular	8.70
136A	24"x36" Asbestos, Regular	10.40
142A	24"x42" Asbestos, Regular	12.00
148A	24"x48" Asbestos, Regular	13.60
120CL	24"x12" Chrome Leather, Regular	5.15
180CL	24"x18" Leather Waist Type	6.65
130CL	24"x30" Chrome Leather, Regular	13.05
136CL	24"x36" Chrome Leather, Regular	15.40
142CL	24"x42" Chrome Leather, Regular	17.80
148CL	24"x48" Chrome Leather, Regular	20.20
2136CL	24"x36" Chrome Leather,Split leg	16.40

207CL OVERALL

Protects legs and chest. Has large one-piece bib, leather shoulder straps with buckles for quick adjustment. Trouser legs 24" wide at bottom. 11" welding rod pocket on left leg, hip pocket with flap. Same material and construction as on pants. Specifications same as on pants but allow 4" over regular pants waist measurement.



209CL SLEEVE

Leather sleeve with cup-shaped shoulder guard. Can be joined to other sleeve by tying at neck. Snap fastener adjustment on cuff. $14.85

4901CL LEGGING

Leather offers complete protection for lower leg, ankle and instep. Four snap fastener adjustments at top with one pocket at ankle. Under instep strap with snap fastener adjustment. Immediate release. Height, approx. 16". per pair.....$18.10

4901RF: Same, in "Technicool".....24.10





40CL HIP LEGGING

Leather protects front of leg from lower thigh down, and back of leg below knee. Oak-tanned leather flare over instep. Two leather loops for attaching to belt. Adjustment strap, with snap fasteners, under instep.

per pair.....$25.65

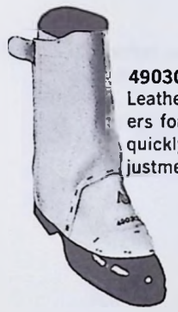
40FR: Same, in flame-resisting duck. $10.50

AMERICAN OPTICAL
PROTECTIVE CLOTHING



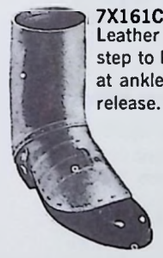
2002CL SPAT

Leather protects foot and ankle. Easily adjusted at side and under instep by adjustable slide buckles and snap fasteners. Large leather flare over instep. Approx. 11" high. .....$ 6.70



4903CL* SPAT

Leather protects instep and ankle. Four snap fasteners for adjustment at top with stay pocket at instep, quickly released. Instep strap with snap fastener adjustment. Approx. 10" high. $11.40



7X161CL SPAT

Leather protects instep and ankle. Spring clip on instep to hold flare. Three positions at top of spat, two at ankle for steel stay, assuring snug fit, immediate release. Approx. 9" high. $12.45



7X171* SPAT

Chrome leather with oak-tanned leather flare. Snug elastic top prevents entrance of sparks or molten metal. Three reinforcing stays keep flare snug against foot, spat cannot curl. Buckle and strap for instep adjustment, leg portion held in place by arctic buckles in the rear, two snap fasteners at top. Approx. 8" high.

Price.....$ 8.80

7X129* SPAT

Leather protects instep and ankle. Snug elastic top prevents sparks or molten metal from entering. Steel spring clip across instep holds flare securely. Buckle and strap arrangement goes underneath shoe. Leg portion held in place by two arctic buckles in rear, two snap fasteners at top. Approx. 8" high.....$ 9.40

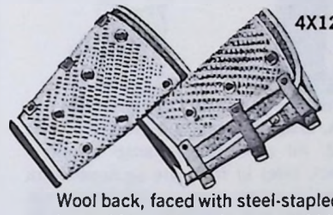
*Also available with "No-Curl" rubber-flare. Prefix catalog number with "S".

7X211 SPAT — ALL RUBBER FLARE



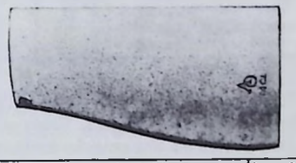
Has leather uppers, flare made of specially compounded rubber — gives up to 400% longer wear. 7½" flare can be trimmed to smaller foot. Two leather bag straps on leg have slide fasteners for quick adjustment. Wide elastic webbing at top also has two snap fasteners. Understrap — same material used on flare — is replaceable. Approx. 8" high. $12.10

4X123 ARM PROTECTOR

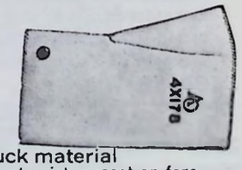


Wool back, faced with steel-stapled leather patch 7⅜" long, 6¾" wide at base and 9½" wide at top. Nine grommeted holes, rimmed with metal, for ventilation. Fastened to arm with three leather straps with adjustable snap fasteners. Overall size: 12½" x 8½".

SLEEVELET



12FR	Fire Resisting Duck,12" Long..	$ 2.50
14FR	Fire Resisting Duck,14" Long..	2.65
18FR	Fire Resisting Duck,18" Long..	3.70
23FR	Fire Resisting Duck,23" Long..	4.60
12CL	Chrome Leather,12" Long.....	6.60
14CL	Chrome Leather,14" Long.....	7.00
18CL	Chrome Leather,18" Long.....	10.20
23CL	Chrome Leather,23" Long.....	12.15



4X178 SLEEVELET

Made of heavy woven duck material

4X178- 8: Has snap fastener at wrist, gusset on forearm, 8" long. $3.80
4X178- 9: Same, 9" long. 3.90
4X178-10: Same, 10" long. 4.15
4X178-11: Same, 11" long. 4.25

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AMERICAN OPTICAL ALUMINIZED CLOTHING



CHART FOR ORDERING SIZES

Suit Sizes	Ordering Sizes
34-36	Small
38-40	Medium
42-44	Large
46-48	X Large
50	XX Large

COATS

Complete protection for upper part of body. Wool collar protects neck. Snap fastener adjustment on cuffs assures snug fit. All nickel plated snap fasteners (insulated on back side) in front are equipped with leather pull tabs for quick removal. All seams are double stitched. Coats are available in six standard sizes.

Length	Aluminized Asbestos		Aluminized Rayon	
30"	204RA-30	$66.05	204RF-30	$65.95
36"	204RA-36	73.90	204RF-36	74.15
40"	204RA-40	79.15	204RP-40	78.55
44"	204RA-44	84.55	204RP-44	83.05
48"	204RA-48	89.80	204RF-48	89.00
50"	204RA-50	92.45	204RF-50	92.30

GLOVES

Gunn style, 13½" long overall. Special chrome-tanned leather palm and fingers. Seam at base of fingers double-stitched, flat seam for additional comfort. One-piece aluminized asbestos back, or aluminized wool back. All leather thumb. Furnished with full lining throughout.

5X357: Gunn Style $11.90

BOOTS

Insulated against heat with aluminized asbestos as outside cover, fiber glass batting and flame-resistant duck inner lining. Asbestos brake lining composition sole with fiber glass insulation and Silvabestos inner sole assure maximum protection and comfort. Easy-to-use arctic fasteners provide adjustability plus snug fit around leg. One universal size fits over all shoes or boots. 7X243. ..... $52.70

CAPE SLEEVE WITH DETACHABLE BIB

Protects arms, chest and shoulders. All seams double lock stitched. Bib attached to front of cape with nickel-plated snap fasteners. Anchor button at each armpit prevents cape from unbuttoning. Refer to chart for ordering sizes.

	Aluminized Asbestos		Aluminized FIBERGLASS		Suit Size	Order Size
With bib	208BRA	$51.85	208BRF	$51.90	34–36	Small
Without Bib	208RA	41.00	208RF	40.70	38–40	Medium
					42–44	Large
					46–48	X Large
					50	XX Large

Note: All AO Aluminized garments are made full enough to fit comfortably over regular clothing.

PANTS

All seams double lock stitched. Snap fasteners at front opening are covered by fly closure. Leather belt loops, duck-lined waist band. Trouser 24" at bottom. Leg length 29" inseam. Standard waist sizes from 30" to 52" in 2" graduations. (Allow 2" over regular waist measurements.) In aluminized asbestos, 205RA.

205RA..... $66.70

COVERALLS

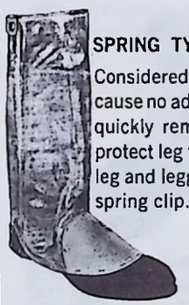
One-piece suit. Fly-type closure with snap fasteners from crotch to neck, double stitched seams, wool collar. Inseam length 32". Sizes — small, 34-36; medium; 38-40; large, 42-44; X large, 46-48; XX large, 50. In aluminized asbestos, 201RA.

201RA..... $119.15

CHAPS

Complete frontal protection from waist to foot. Has two leather straps around back of leg with full-circle construction at leg bottom. Standard leg length 30". Standard sizes — small, 32-36; medium, 38-40; large, 42-46. In aluminized asbestos, 210RA; in aluminized rayon, 210RD.

210RA..... $41.35



SPRING TYPE LEGGING

Considered by many as the best type of legging because no adjustments are necessary. Easily put on and quickly removed. Spring steel frame not only helps protect leg from impact, but creates air space between leg and legging. Has chrome-tanned leather flare with spring clip. In aluminized asbestos 1481RA.

Price..... $22.60

AO Safety Products

American Optical has one of the largest leather clothing, glove, and mitten capabilities in the industry. Special items will have our prompt attention.

AO FYRE-FREE CLOTHING

AO Fyre-Free (Lynrus FR-1) clothing combines the feel and comfort of an untreated material with the protection of permanent-type flame proofing. The fabric is 100% cotton cloth weighing approximately 10 to 11 ounces per square yard finished. The material is longlasting and mildew-resistant.



201PP COVERALLS

Full one-piece suit protects from neck to ankles. Has set-in sleeves, snap fasteners from neck to crotch. All seams double stitched. Snap fasteners at wrist for snug fit. Full across back. Refer to chart for ordering sizes. (Standard inseam: Leg seam — 32").

Price..... $32.45

204PP COAT

Maximum protection for upper part of body. Set-in sleeves and military style collar. Snap fasteners evenly spaced down front of garment. Snap fasteners at wrists assure snug fit. Double locked stitched seams. Comes in 5 standard lengths — 30", 36", 40", 44", 48".

Catalog Number		
204PP-30	30" Coat	$15.70
204PP-36	36" Coat	17.40
204PP-40	40" Coat	21.25
204PP-44	44" Coat	22.90

205PP PANTS

Snap fasteners at front opening, reinforced belt loops. All seams double stitched. Two back pockets have rivet reinforcing at top. Standard leg length 29". Waist sizes 30" to 52" in 2" graduations. (Allow two inches over regular waist measurements.) $16.05

208PPB CAPE SLEEVE AND BIB

Protects arms, chest and shoulders. All seams double stitched. 18" long bib is attached with snap fasteners, is replaceable. Anchor button under arm prevents cape from unbuttoning. Snap fasteners at wrist for adjustment and snug fit. See chart for ordering sizes. $13.10

208PP: Same, but without bib. ..... $ 9.95

VAN'S Safety - Pant Guard



Made of 1¼ inch Rubber Webbing and fastened with Snap-Fasteners.

Keeps the Pants tight around the ankles so they do not catch on loose articles.

WASH IN LUKEWARM WATER

Made in 3 Colors—White, Blue & Black



2-Button Style

with 2-inch dark Rubber Web



FOOT GUARDS

FOOT GUARDS consist essentially of a metal shield to be worn over the shoe whenever the foot is in danger of being either crushed or cut. The metal shield is designed to furnish a maximum amount of protection to the entire foot—not merely to the toes alone, but also to the instep—against hazards from falling, rolling or flying objects, or from accidental tool blows. All Foot Guards are designed to withstand an impact of **one hundred pounds dropped from a vertical height of three feet** with a large factor of safety. They fit any shoe— no rights or lefts—and are furnished in widths of, 5" (average), and 5½" (large).

200 Men's Aluminum Alloy Foot Guard, equipped with a two-piece Leather Strap, Quick Fastener and Rubber Toe Clip

500 Men's Alloy Steel (20ga.) Foot Guard equipped with a two-piece Leather Strap, Quick Fastener and Rubber Toe Clip

201 Men's 16 Gauge Steel Foof Guard, equipped with a two-piece Leather Strap, Quick Fastener and Rubber Toe Clip

202 Men's Aluminum Alloy Foot Guard, equipped with a two-piece Leather Strap, Quick Fastener and Full Rubber Sole

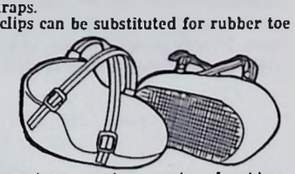
502 Men's Alloy Steel (20 ga.) Foot Guard, equipped with a two-piece Leather Strap, Quick Fastener and Full Rubber Sole

102 Men's 16 Gauge Steel Foot Guard, equipped with a two-piece Leather Strap, Quick Fastener and Full Rubber Sole

IF REQUESTED, rubber straps or web straps can be substituted for leather straps.

Steel toe clips can be substituted for rubber toe clips.

GARDWELL KNEEL-EZE KNEE PADS



These pads fit any knee, and are made entirely of rubber, contour molded for comfort. Outside contact surface has anti-skid finish. Sponge rubber cushion on the inside gives additional protection. Will not slip when walking . . . fastened by adjustable crossed straps. Recommended for miners, cement finishers and many other jobs where worker is required to kneel.

MODEL 913T $8.50

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