

## Tungsten Grinder / Coolers / Cable Covers

### Neutra Portable Tungsten Grinder

- 110 volt grinder
- Coolant-containing/dust-receiving bottle.
- Carrying case containing grinder and supplies:

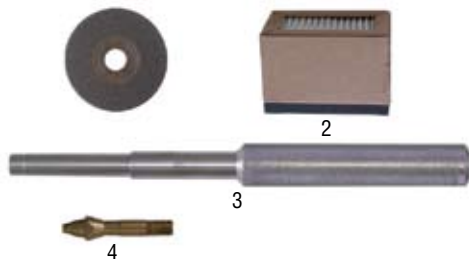
Part No. 88896022



#### Grinder Carrying Case Includes:

- (1) Portable Grinder
- (1) Electrode holder
- (3) Collets: 1/16", 3/32", 1/8"
- (2) Open-ended wrenches
- (2) Allen wrenches
- (1) Spare filter

### Replacement Parts and Accessories



Item	Part No.	Description
1	44510030	Diamond grinding wheel
2	44510260	Filter cassette
3	44510050	Electrode holder
4	44510162	Collet 1/16"
	44510164	Collet 3/32"
	44510165	Collet 1/8"

### MIG-TIG Cable Cover

- Abrasion resistant woven material.
- Non-conductive zipper with overlap flap to protect it from weld spatter.
- "Snug Straps" to secure both ends on torch.
- Ultraviolet light resistant.
- Acid/chemical resistant.
- Flame & tear resistant.



Part No.		Description	Size	
Value	Premium*		Width	Length
WC-3-10	CC310B	TIG 10'	3"	10'
WC-3-22		TIG 22'	3"	22'
	CC323B	TIG 23'	3"	23'
	CC410B	MIG 10'	4"	10'
	CC423B	MIG 23'	4"	23'

\* Enter-Tube™ design innovation saves time by allowing the cover to be installed without disconnecting the torch from the power source.

### Valu Coolers

- Ideal for MIG, TIG, Plasma, resistance, and Electro-Slag type welding.
- Features an all stainless steel tank, copper radiator coils, and a reinforced hose.
- Easy-to-read water indicators, quick change pumps and filters.
- Available in two compact styles with rigid motor mount to minimize damage and vibration.
- High efficiency, copper core and rustproof heat exchanger.



Part No. VC2500SS



Part No. VC3500SS

Model	VC2500SS	VC3500SS
<b>Dimensions</b>	17" x 11" x 14" (43.2 cm x 27.9 cm x 35.6 cm)	21-1/4" x 13-1/8" x 16-3/4" (54.0 cm x 33.3 cm x 42.5 cm)
<b>Reservoir Capacity</b>	2 gallon, stainless steel	3 gallon, stainless steel
<b>Pump Capacity</b>	100 PSI maximum 1.5 GPM (5.68 LPM) @ 50 PSI 1.8 GPM (6.81 LPM) @ 60 PSI	100 PSI maximum 1.5 GPM (5.68 LPM) @ 50 PSI 1.8 GPM (6.81 LPM) @ 60 PSI
<b>Heat Exchanger</b>	High efficiency, copper core, rustproof	High efficiency, copper core, rustproof
<b>Motor Voltage</b>	115 VAC single phase 60 Hz	115 VAC single phase 60 Hz
<b>Amperage</b>	6.8	6.8
<b>Water Connections</b>	1/4" NPT supplied w/ 5/8-18" UNC LH thread fitting	1/4" NPT supplied w/ 5/8-18" UNC LH thread fitting
<b>Net Weight</b>	29.3 lbs. (13.3 kg)	43 lbs. (19.5 kg)
<b>Approximately Shipping Weight</b>	34.3 lbs. (15.5 kg)	46 lbs. (20.9 kg)

### Cable Covers

- Golden willow tanned leather.
- Adjustable to fit 1-1/2" to 1-3/4" diameter.
- Nickel plated snaps every 6 inches.

Part No. CC-10: 10'

Part No. CC-23: 23'

Part No. CC-50: 50'

Part No. CC-100: 100'



## Goggles / Spectacles

### Welding Goggles

#### Lift/Fixed Front Goggle

This soft polyethylene frame goggle has 6 vents that assure ample ventilation. Fits easily over prescription glasses. Supplied with a 2" x 4-1/4", shade 5 lens protected by a clear cover lens. A magnifier lens can be placed in the unit in the rear of the colored protective lens.

- Meets requirements of ANSI Z87.1

**Part No. 932-13** lift front lens

**Part No. 932-12** fixed front lens



#### Fixed Front Goggles

A streamlined one-piece hard frame welding cover goggle. Spring loaded lens retainer for quick replacement of lens. Headband slots are an integral part of the frame thereby strengthening both frame and slots. The 932-16 is the answer to the demand for a hard-frame welding goggle at a low price. Complete with shade 5 lens.

- Meets requirements of ANSI Z87.1

**Part No. 932-16**



#### Lift/Fixed Front 50 mm Goggle

The soft opaque vinyl frame comfortably molds to the face and fits easily over spectacles. Six baffled and screened vents to prevent fogging. Features a 50 mm lift front lens, affording dual purpose usage and added safety. Complete with shade 5 lens.

- Meets requirements of ANSI Z87.1

**Part No. 932-15** lift front lens

**Part No. 932-11** fixed front lens



#### Cup Type Goggle - Snug Fit-Vented Cup

These goggles combine comfortable snug fit with wide vision. Cups are molded of flame resistant plastic. Elastic headband is adjustable. Welders goggles are supplied with 50 mm shade 5 lens.

- Meets requirements of ANSI Z87.1

**Part No. 932-44**



#### Visitor Spectacle

- Advanced temple design for extraordinary comfort
- High impact protection
- Optically correct spherical lens
- Fits over most prescription spectacles
- Strong double hinged temple
- Excellent ultraviolet protection
- Meets requirements of ANSI Z87.1

**Part No. 1410S**



#### Slip-On Side Shields

These inexpensive side shields provide side protection against mild nuisance hazards. They fit most standard spatula type temples and may be easily and quickly installed or removed.

- DOES NOT meet ANSI requirements for side shield protection.

**Part No. 934-60**



### Mag-Safe™ Magnifying Safety Glasses

- All Mag-Safe™ magnifying safety glasses meet or exceed ANSI Z87.
- ANSI Z87 requires wearing safety glasses under any style welding helmet.
- Diopters available: 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00



**Part No. BF100**

#### Bifocal Magnifiers

- Read small print.
- Saves money over prescription safety glasses.
- Improved performance.
- Increased productivity.



**Part No. CC100**

#### New Style Bifocal Magnifiers

Part No.	Diopter
CC100	1.00
CC150	1.50
CC200	2.00
CC250	2.50
CC300	3.00

#### Bifocal Magnifiers

Part No.	Diopter
BF100	1.00
BF125	1.25
BF150	1.50
BF175	1.75
BF200	2.00
BF225	2.25
BF250	2.50
BF275	2.75
BF300	3.00

#### Full Lens Magnifiers

Part No.	Diopter
MS100	1.00
MS125	1.25
MS150	1.50
MS175	1.75
MS200	2.00
MS225	2.25
MS250	2.50
MS275	2.75
MS300	3.00

#### Full Lens Magnifiers

- For use under welding helmet.
- Allows vision through entire viewing area of large welding filters.
- Eliminates distortion caused by flat magnifiers

### Industrial Soft Frame Goggles

For protection against flying chips, particles, chemicals, etc. Ventilation provided by perforations in frame with thru-lens ventilation gives up to 40% more air flow.

- Polycarbonate lens in choice of frame and lens colors
- Elastic headband
- Meet Requirements of ANSI Z87.1



**Part No. 932-1**

Part No.	Frame	Lens
932-1	Perforated	Clear
932-1F	Perforated-fog less	Clear
932-3	Perforated	Green
932-4	Hooded vent	Clear
932-4F	Hooded vent-fogless	Clear
932-30	Chemical goggle	Clear

### Goggle Headbands

- Top quality elastic headband.
- Multicolored design.
- Nickel plated positive lock installed on band.
- Sewn end tab (not stapled).
- Extra long life.



**Part No. 932-70**

## Visors

### Multi-Purpose Faceshields

The multi-purpose faceshield combines clear anti-fog window with a flip-down IR window, providing uninterrupted protection for various operations. The shield curves naturally to fit facial contours—ensuring reliable protection from splash, particles, and flying debris. Ratchet headgear suspension allows user to adjust size and tighten at the turn of a knob.

- FIRST EVER combination clear anti-fog window w/ Shade IR flip-up lens.
- UV absorbing polycarbonate windows.
- Supplied with a ratchet headgear providing a perfect fit every time.
- Meets ANSI Z87.1-2003 Standards.
- CUL Certified to meet CAN/CSA Z94.3 Standards.

### Faceshield w/ Flip-Up Shade Shade 8 IR

- Only faceshield in the market that meets ANSI Z49.1 Standards for plasma cutting!

Part No. MPH-F8

### Shade 6 IR and 5 IR

- FIRST EVER combination clear anti-fog window w/ an infrared shade flip-up lens for use in grinding, cutting and brazing.

Part No. MPH-F6- Shade 6 IR

Part No. MPH-F5- Shade 5 IR



Part No. MPH-F8

### Clear Anti-Fog Faceshield

- Clear anti-fog window for grinding.
- Available with hardhat attachments.

Part No. MPH-CL



### Universal Visor Crown and Ratchet Headgear

- Unique toggle design makes assembly quick and easy.
- ABS crown is balanced and lightweight.
- Extreme impact strength.
- Soft brow pad on headgear for all-day comfort.
- Supplied with a ratchet headgear provides a perfect fit every time.
- Meets ANSI Z87.1-2003 Standards.
- CUL Certified to meet CAN/CSA Z94.3 Standards.

Part No. UNI-RH



### Aluminum Bound Polycarbonate Faceshield Window 8" x 15.5" x .040"

- Aluminum bound provides extra durability.
- Chemical splash resistant.
- Non-glare finish allows for high clarity.
- Extreme impact strength.

Part No. RV-AB

**⚠ Caution:** This product is NOT suitable for protection against x-rays, gamma rays, high energy particulate radiation, lasers or masers. You should inspect this faceshield frequently and immediately replace worn, pitted, scratched or damaged parts. You should give this caution to any user of this faceshield.

### Face Shield Replacement Visors

All Comfort® Line replacement visors are made from the highest quality, optically clear material and are available in clear and dark green. This visor eliminates the guesswork in selecting the proper style, size and type. Comfort® Line has the capability and know-how to manufacture special visors and hood windows to fit almost any head gear, cap attachment and sandblaster hoods.

- Fits universal hole pattern.
- Meet ANSI Z87-1



Part No. 932-824BDG

#### Fits the following original equipment manufacturer's headgear

- Huntsman K, K-3, K-4, K-10, C, H, P, & HF.
- Glendale 5000 & 6100 series.
- American Optical H-15.
- Jackson 131, 170SB, 282, 137, 37, 382.
- Also all visors with the Universal hole pattern fit most headgears and cap attachments of Apex, Norton, Bullard, Eastern Safety.

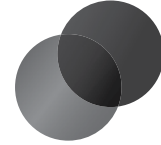
Part No.	Size	Color	Binding
932-804BCL	8" x 12" x .040"	Clear	Yes
932-804UCL			No
932-824BDG	8" x 12" x .040"	Dark green	Yes
932-824UDG			No
932-344BCL	9" x 15.5" x .040"	Clear	Yes
932-344UCL			No
932-354BLG	9" x 15.5" x .040"	Light green	Yes
932-364BDG	9" x 15.5" x .040"	Dark green	Yes
932-364UDG			No
<b>Fibre Metal Replacement (only)</b>			
932-4199UCL	9.75" x 19"	Clear	No
932-4199UG	9.75" x 19"	Dark green	No



2" x 4.25" filter plates



4.5" x 5.25" filter plates



50 mm filter lens

## AWS Guide to Lens Shade Selection

Operation	Arc Current	Shade Minimum	Suggested Shade No.
<b>Shielded Metal Arc Welding (SMAW)</b>			
Less than 3/32" electrodes	Less than 60	7	–
3/32" to 5/32" electrodes	60 - 160	8	10
5/32 to 1/4" electrodes	160 - 250	10	12
More than 1/4" electrodes	250 - 550	11	14
<b>Gas Metal Arc Welding / Flux Cored Arc Welding (GMAW)</b>			
	Less than 60	7	–
	60 - 160	10	11
	160 - 250	10	12
	250 - 500	10	14
<b>Gas Tungsten Arc Welding (GTAW)</b>			
	Less than 50	8	10
	50 - 150	8	12
	150 - 500	10	14
<b>Air Carbon Arc Cutting (CAC-A)</b>			
Light	Less than 500	10	12
Heavy	500 - 1000	11	14
<b>Plasma Arc Welding (PAW)</b>			
	Less than 20	6	6 to 8
	20 - 100	8	10
	100 - 400	10	12
	400 - 800	11	14
<b>Plasma Arc Cutting (PAC)</b>			
	Less than 20	4	4
	20 - 40	5	5
	40 - 60	6	6
	60 - 80	8	8
	80 - 300	8	9
	300 - 400	9	12
	400 - 800	10	14
<b>Torch Blazing (TB)</b>	–	–	3 or 4
<b>Torch Soldering (TS)</b>	–	–	2
<b>Carbon Arc Welding (CAW)</b>	–	–	14

## Application Suggestions Based on Plate Thickness

Operation	Plate Thickness		Suggested Shade No.
	Inches	mm	
<b>Oxyfuel Gas Welding (OFW)</b>			
Light	Under 1/8	Under 3	4 or 5
Medium	1/8 to 1/2	3 to 13	5 or 6
Heavy	Over 1/2	Over 13	6 or 8
<b>Oxygen Cutting (OC)</b>			
Light	Less than 1	Under 25	3 or 4
Medium	1 to 6	25 to 150	4 or 5
Heavy	Over 6	Over 150	5 or 6

## Replacement Lens Chart

Part No.	Description	Shades
<b>2" x 4.25" Filter Plates</b>		
932-105	Hardened glass - fed. spec.	4 thru 14
932-106	Plastic - fed. spec.	5,6,8 thru 12
932-109	Gold plate - plastic - fed. spec.	8 thru 12
932-115	Metal kote silvered glass	8 thru 12, 14
<b>4.5" x 5.25" Filter Plates</b>		
932-107	Hardened glass - fed. spec.	4 thru 14
932-108	Irex - fed. spec.	9 thru 12
932-110	Gold plate - plastic - fed. spec.	8 thru 12
932-117	Metal kote silvered glass	8 thru 14
<b>50 mm Filter Lens</b>		
932-205	Hardened glass - fed. spec.	4 thru 6
<b>2" x 4.25" Clear Cover Lens</b>		
932-1440**	.060 poly carbonate cover plate	Clear
932-440** (932-940)*	Poly carbonate safety plate	Clear
932-740 (932-640)*	50% CR-39 clear plastic	Clear
932-840	100% CR-39 clear plastic	Clear
932-1140	Acrylic cover plate	Clear
<b>4.5" x 5.25" Cover Lens</b>		
932-442 (932-942)*	Poly carbonate safety plate	Clear
932-742 (932-642)*	50% CR-39 clear plastic	Clear
932-842	100% CR-39 clear plastic	Clear
932-1142	Acrylic cover plate	Clear
<b>50 mm Cover Lens</b>		
932-209	Poly carbonate	Clear
932-210	100% CR-39 clear plastic	Clear
<b>Magnifier Lens</b>		
932-145	Glass - specify focal power (0.75 thru 3.50)	Clear
932-146	Magna lens - plastic - specify focal power (0.75 thru 2.50)	Clear

\* These Items Indicate Personalized Lenses

\*\*Available in bulk.

### 30" Split Leather Welders' Jacket

Rolled collar with inside chest pocket. Non-reflective snap closure and snaps on wrist. Full length sleeves.

**Part No. 910-1:** S, M, L, XL, XXL, XXXL, XXXXL

**Part No. BT910-1:** S, M, L, XL, XXL, XXXL, XXXXL  
(Buck tan)



Part No. 910-1

### Leather Aprons

- Waist and leg straps
- Universal sizing, one piece construction
- All aprons come with adjustable waist ties and adjustable neck ties

**Part No. 910-21:** 24" x 24" waist apron

**Part No. 910-22:** 24" x 36" bib apron

**Part No. 910-23:** 24" x 48" bib apron

**Part No. 910-24:** 24" x 48" split bib apron



Part No. 910-22

### Leather Cape Sleeves

Cape sleeve with collar, 9" front, 6" back

**Part No. 910-6:** S, M, L, XL, XXL, XXXL, XXXXL

### Bibs

**Part No. 910-7:** 14" Detachable bib

**Part No. 910-7-20:** 20" Bib for more protection



Part No. 910-6

Part No. 910-7

### Leather Sleeves

- 23" Sleeve with adjustable neck strap and wrist snaps.

**Part No. BT910-12:** Buck tan

**Part No. 910-12L**

**Part No. 910-12R**

**Part No. 910-12**



Part No. 910-12

### Leather Clothing

Made from No. 1 side split cowhide to add strength and heat resistance. Full sized for the utmost comfort. All seams are sewn with Kevlar® thread for longer garment life.

- Available in golden willow (yellow) or buck tan (brown)
- Soft roll collar - for added neck comfort
- Non-reflective snap buttons
- Inside chest pocket and no bind arm pit
- Adjustable wrist snaps
- Kevlar® thread
- Full cut
- Larger sizes available upon request

### Glossary

**Chrome Tanned-** Refers to leather which has been preserved using chromium salts. This tanning produces a soft, heat resistant leather.

**Oak Tanned-** A type of dry vegetable tanning that is non heat resistant. This tanning process gives a very dense leather.

**Side Split-** The portion of the hide that covers the rib area of the animal. Stronger and more uniform than shoulder leather with fewer imperfections such as scars and weak fibers.

**Shoulder Split-** The portion of the hide from the neck and shoulder of the animal. Fibers tend to be weaker than side split.

**Grain Leather-** Top portion of the hide; smooth, soft and flexible. Used primarily when dexterity is required.

### Leather Terminology

**Cape Skin-** A soft pliable leather which affords the wearer greater dexterity in TIG gloves.

**Deer Skin-** Soft pliable leather even when exposed to high heat: Used primarily for TIG gloves.

**Pigskin-** A very abrasive leather that remains soft when exposed to water.

**Welting-** A 1/4" reinforcing strip of leather sewn between seams to strengthen construction, hide threads and minimize burnout.

**Kevlar®-** A synthetic fiber developed by Dupont™ Kevlar® will withstand 600°F. It is used as a thread in place of cotton for sewing welding gloves or as a woven material to replace asbestos in gloves or clothing.

## Leather Clothing

### Cowhide Comfort® Clothing

Offers maximum protection under the most rugged conditions. The Comfort® line of welding clothing is made with high quality leather to ensure maximum protection and comfort. Unlike high temperature synthetic fabrics, cowhide leather is strong, yet flexible and resists cuts, sparks and slag at an economical price.

#### Jackets

##### 30" Leather Welders Jacket

- Non-reflective, reinforced snap buttons
- Adjustable stand-up, soft rolled collar for added comfort
- Scribe pockets on both sleeves
- Take-up straps for the waist
- Adjustable wrist snaps
- Inside pocket to protect belongings
- All seams double lock stitched
- Double snaps at neck
- Stress points are rivet reinforced
- Sewn with Kevlar®



Part No. 710-1: S, M, L, XL, XXL, XXXL, XXXXL

#### Cape Sleeves

##### Leather Cape Sleeves

- Non-reflective, reinforced snap buttons
- Adjustable stand-up, soft rolled collar for added comfort
- Scribe pockets on both sleeves
- Adjustable wrist snaps
- All seams double lock stitched
- Stress points are rivet reinforced
- Sewn with Kevlar®



Part No. 710-6: S, M, L, XL, XXL, XXXL, XXXXL, 5XL

#### Leather Sleeves

##### 23" Leather Sleeve

- Sleeve covers arm from shoulder to wrist
- Non-reflective, reinforced snap buttons
- Adjustable wrist snaps
- Adjustable neck straps
- Sewn with Kevlar®

Part No. 710-12



Part No. 710-12

##### 18" Leather Sleeve

- Non-reflective, reinforced snap buttons
- Adjustable wrist snaps
- Adjustable arm straps
- Sewn with Kevlar®

Part No. 710-14



Part No. 710-14

#### Aprons

##### Bib Apron

- Long front body protection
- Adjustable waist strap with quick release buckle
- Adjustable crossed back straps
- 2 front bib pockets
- Stress points are rivet reinforced
- Sewn with Kevlar®

Part No. 710-22: 24" x 36"

Part No. 710-23: 24" x 48"



Part No. 710-23

##### Split Leg Bib Apron

- 24" x 48" Split leg apron
- Adjustable waist and leg straps with quick release buckles
- Adjustable crossed back straps
- Long front body protection
- 2 front bib pockets
- Stress points are rivet reinforced
- Sewn with Kevlar®

Part No. 710-24



Part No. 710-24

##### Waist Apron

- 24" x 24"
- Adjustable waist strap
- Quick side release buckle
- Sewn with Kevlar®

Part No. 710-21

#### Detachable Bibs

##### Leather Bib

- Detachable long front body protection
- Adjustable waist strap with quick release buckle
- Not interchangeable with 910 bibs
- Sewn with Kevlar®

710-7-14: 14" Bib

710-7-20: 20" Bib

710-7-26: 26" Bib



#### Rod Bags

- Double leather bottom
- Belt loop
- Holds 5 lbs. of electrodes

Part No. WC-38

- Oak tanned sole leather
- Hard wood bottom
- Belt loop
- Holds 10 lbs. of electrodes plus chipping hammer

Part No. WC-40

- Soft golden willow tanned leather
- Double bottom
- Holds 5 lbs. of electrodes
- Belt loop and quick swivel spring clip

Part No. WC-41



Part No. WC-41

## Flame Resistant Clothing

Comfort® Flame Resistant (FR) clothing is made from 9 oz., 100% visual green cotton. It is cooler, lighter and less expensive than leather. FR Clothing is excellent for warm weather or indoor use where there is light exposure to sparks and spatter. This fabric will maintain its flame resistance through many launderings. Larger sizes available upon request.

### Cotton Sateen Full Jackets

- Rolled collar with inside chest pocket
- Non-reflective snap closure and snaps on wrists

**Part No. 940-1:** (30") S, M, L, XL, XXL, XXXL, XXXXL, 5XL

**Part No. 940-2:** (26") S, M, L, XL, XXL, XXXL, XXXXL, 5XL

### Cape Sleeves

- Cape sleeve with collar, 9" front, 6" back

**Part No. 940-6:** S, M, L, XL

### Sleeves

**Part No. 940-18:** 18" Sleeve with elastic top and snaps at wrist

**Part No. 940-19:** 18" Sleeve with elastic at both ends

**Part No. 940-23:** 23" Sleeve with adjustable neck strap and wrist straps.

### Bibs

**Part No. 940-7:** Detachable 14" bib

**Part No. 940-8:** Detachable 20" bib



Part No. 940-1



Part No. 940-6 cape sleeve

Part No. 940-8 bib

### Cotton Sateen Aprons

- Split bib apron with adjustable neck, waist, and leg straps
- Reinforced with leather at all stress points
- Surged and stitched seams to prevent raveling
- All aprons come with adjustable waist ties and all bib aprons come with adjustable neck ties

**Part No. 940-21:** 24" x 24" waist apron

**Part No. 940-22:** 24" x 36" bib apron

**Part No. 940-24:** 24" x 48" split bib apron

**Part No. 940-25:** 24" x 42" split bib apron

**Part No. 940-26:** 24" x 36" split bib apron



Part No. 940-22



Part No. 940-26

## Protective Clothing- Flame Resistant

### Lab Coats

- 45" overall length.
- One piece back with inset sleeves.
- Metal snap front closure.

**Part No. 940-545:** M, L, XL, XXL, XXXL



Part No. 940-545



Part No. 940-641

### Trousers

- Two back patch pockets and two slash front pockets.
- Brass zipper fly.
- Specify waist and inseam.

**Part No. 940-610**

Clothing Size Chart	
<b>S</b>	36" - 38"
<b>M</b>	40" - 42"
<b>L</b>	44" - 46"
<b>XL</b>	48" - 50"
<b>XXL</b>	52" - 54"



Winter Liners / Sweatbands

Winter Liners



- Yellow twill shell with napped flannel on the inside.
- One universal size.
- Velcro chin strap.
- Three suspension tabs.
- Flame retardant.

Part No. 930-1



- Heavy blue twill with long nape, front neck flap and nose flap.
- Velcro neck and nose strap.
- One universal size.
- Flame retardant.

Part No. 930-12



- Blue stretch quilted material with a fleece lining.
- Velcro chin strap.
- Three suspension tabs.
- One universal size.
- Flame retardant.

Part No. 930-15



- Blue twill shell, with fleece lining and long nape.
- Velcro chin strap.
- Three suspension tabs.
- One universal size.
- Flame retardant.
- 930-18 has pile lining.

Part No. 930-16

Part No. 930-18- pile lining



- 16 ounce polar fleece.
- Velcro closure, elastic around face.
- One universal size.
- Non flame retardant.

Part No. 930-30



- 100% 16 ounce denim.
- 12 ounce poly pile liner.
- Neck and shoulder protection.
- Velcro closure.
- One universal size.
- Flame retardant.

Part No. 930-40



- Heavy blue twill with long nape, front neck flap and nose flap.
- Velcro neck and nose strap.
- One universal size.
- Flame retardant.

Part No. 930-60



- 100% cotton outer shell, polyester fleece lining.
- Two layer.
- Long nape length.
- Stars and stripes design.
- Non-Flame retardant.

Part No. 930-GL4X



- Winter liner for safety caps and hats.
- One universal size.
- Non flame retardant.
- Washable nylon.
- Available in red, blue, or orange.

Part No. 930-50-BLU  
Part No. 930-50-ORG  
Part No. 930-50-RED

Sweatbands



- Soft grain leather sweatband.
- Snaps over headgear.

Part No. 912-81



- Sheepskin sweatband.
- Two snaps fit on headgear.

Part No. 912-82





## 2-Ply Laminated PVC Rain Suit (25 mm)

- 3 piece suit: jacket, pant, hood
- Sold as a complete suit only S-XXXL
- Medium weight suit that wears like a heavier suit.
- Material is very flexible and comfortable with less snag and wear resistance.
- Jacket has detachable hood, raglan shoulders, mesh cape back, and air vents under arms, storm fly front, with non-conductive snap at ankles and wrists.



Part No.	Description
3400-S-XXXL	Rain suit 25 mm 3pc

## Lightweight 12 mm PVC Apparel

- Lightweight two piece rain suit with handy tote pouch.
- Jacket has attached hood, storm fly front and take up snaps at wrists.
- Pants have elastic waist and snaps at the ankles.



Part No.	Description
3300-S-XXL	Rain suit 12 mm

## PVC/Polyester (35 mm)

- Medium weight, PVC coated on a polyester broad loom fabric.
- PVC/polyester material offers good resistance against abrasions, tears and snags, as well as oils, acids and a wide variety of industrial compounds.
- The premium quality PVC used allows suits to stay flexible at cold temperatures.



Part No. 3100  
Part No. 3910

Part No.	Description
3100-S-XXXL	Rain jacket 35 mm w/ detachable hood
3200	Universal hood w/ drawstring
3500-S-XXXL	Rain coat 35 mm 49" w/ detachable hood
3910-S-XXXL	Rain pants w/ bib & snap fly

## Double Coated PVC/Nylon

- This flame resistant suit is made with a nylon scrim material of 210 denier, laminated both sides with PVC.
- Rip-Stop construction allows for light weight comfort while being highly resistant to snags and tears.
- Material remains flexible in cold weather, yet is light weight and comfortable for warmer temperatures. Resistant to most oils, acids, and chemicals.



Part No. 3102  
Part No. 3912

Part No.	Description
3102-S-XXXL	Rain jacket w/detachable hood
3202	Universal hood w/drawstring
3912-S-XXXL	Rain pants w/bib & snap fly
600C-L-XXXL	PVC rain coat 49"

## Thumb Types

### Straight Thumb

Design that points vertically from the wrist and useful in those areas where gripping is important.



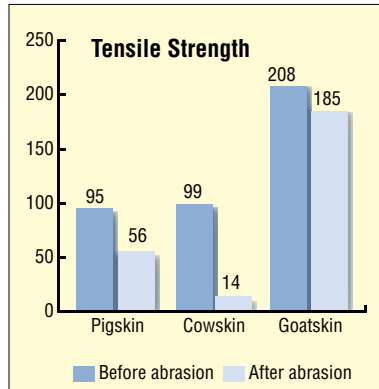
### Wing Thumb

An angled thumb that allows good flexibility. Contains no seam between palm and thumb area.



### Keystone Thumb

Highly flexible thumb that is stitched separately into the palm area, usually with an extra layer of leather.



## Premium Protective Products

Comfort® gloves are quality, heavy duty products. The tough but flexible materials offer exceptional hand protection and superior performance against cuts, abrasions and temperature extremes. Comfort® offers a wide variety of premium gloves to meet specific applications on the job site.

### Goatskin Superiority

- Lanolin oil is naturally present in goatskin. Our unique tanning gives you a supersoft glove that increases comfort while reducing hand fatigue.
- Naturally soft leather means dexterity, tactility, and close touch for those sensitive jobs, such as TIG welding.
- Goatskin durability is renowned! Independent lab tests show that when compared to cow and pig glove leather, goatskin is at least twice as durable than both before abrasion, three times more durable than pig after abrasion, and 10 times more durable than cow after abrasion.
- Tests performed by an independent lab using 80 grit sandpaper after 1600 abrasion cycles.

### Leather Terminology

**Side Split-** The portion of the hide that covers the rib area of the animal. Stronger and more uniform than shoulder leather with fewer imperfections such as scars and weak fibers.

**Shoulder Split-** The portion of the hide from the neck and shoulder of the animal. Fibers tend to be weaker than side split.

**Belly Split-** Comes from the belly portion; it is the least dense and most economical.

**Grain Leather-** Top portion of the hide, smooth, soft and flexible. Used primarily when dexterity is required.

### Materials

**Cowhide-** Offers maximum protection under the most rugged conditions.

**Goatskin-** The natural presence of lanolin in goatskin makes it supersoft and flexible. The pliable goat leather creates dexterity and increased durability.

**Sheepskin-** Soft, durable leather which provides comfort in needs of dexterity and sensitivity.

**Cottons-** Usually knitted or woven fabrics. They provide comfort wear for light to medium duty work. Woven fabrics offer better abrasion resistance and barrier protection against grime. Jersey fabric stretches to fit the hand.

## Cuff Styles

### Knit Wrist

Found on most woven and knit cotton gloves. Comfortable, snug fit that keeps dirt out of gloves.



### Turned Cuff

Leather edge of cuff is turned up inside glove and hemmed to provide extra wear and comfort.



### Safety Cuff

Can easily be shaken off without using the other hand—a safety precaution. Its main purpose is to provide protection to the wrist area.



### Shirred Cuff

Used where easy on and off applications are required. A shirring closure across the back of the lower wrist area is used to hold the glove snugly on the hand.



### Gauntlet Cuff

A longer cuff typically at least 4" long which protects the wrist and forearm.



## Glove Pattern

### Gunn Cut

Pattern includes a seam across the base of two middle fingers on palm side.



### Clute Cut

Identified by the absence of a seam across the base of two middle fingers on palm side.



\* Designs and/or specifications of gloves are subject to change without notice.

## Leather Palm, Cowhide & Goat Work Gloves

### Leather Palm Work Gloves



- Quality shoulder/ belly split cowhide.
- Starched safety cuff.

**Part No. 1210:** L

Available in Economy Patch Palm.

**Part No. 1201:** L

**Part No. 1201DB-** Denim Back



- Select shoulder split cowhide.
- Plasticized safety cuff.

**Part No. 1220:** L



- Select shoulder split cowhide.
- 2.5" rubberized safety cuff.

**Part No. 1230:** L



- Premium side split cowhide.
- Heavy safety cuff.

**Part No. 1420:** L



- Premium side split brown cowhide.
- Yellow fabric back.
- Heavy safety cuff.

**Part No. 1610:** L



- Premium side split cowhide.
- Side split reinforced palm and finger.
- Heavy safety cuff.

**Part No. 1421:** L

### Work Gloves



- Winter work glove.
- Premium side split cowhide.
- Fully thermo-lined including cuff.
- Superior warmth and comfort.
- Fabric back.
- Heavy safety cuff.

**Part No. 1242L-R/G:** L



- Premium goat grain leather.
- Heavy safety cuff.

**Part No. 1910T:** L



- Premium leather palm.
- Side split cowhide.
- P.E. safety cuff.
- Full leather back.
- Gunn pattern.
- Wing thumb
- Fleece lined.

**Part No. 1243:** L



- Full leather back work glove.
- Heavy select side split cow leather.
- Sewn with super-strong heat resistant Kevlar® thread.

**Part No. 1717:** XL

## Cotton, Logo, & Driver's Gloves

### Cotton Gloves



- 100% lightweight cotton.
- Unhemmed.
- One size fits all.

**Part No. 4100**



- Premium brown jersey glove.
- Knit wrist protection.
- Multi-purpose glove.
- Heavy duty.
- One size fits all.

**Part No. 5001**



- Plastic dot glove.
- Knit wrist protection.
- Cotton canvas.
- Superior grip.

**Part No. 5120: L**

### Logo Gloves



- Specify which color and logo per dozen gloves ordered.
- Dodge®, Ford®, Chevrolet®, Professional Bull Riders™, John Deere®, Nascar®, NFL™, and NCAA® all available.
- One size fits all.
- Factory drop ship only.

**Part No. WA0022**

### Drivers Gloves



- Pig grain
- Heatrac® insulated
- Keystone thumb

**Part No. 1366: L**



- Hi-visibility pig split leather palm glove
- Heatrac® insulated
- Fluorescent reflective knuckle strap
- Safety cuff with knit wrist

**Part No. 1391: L, XL**



- Quality side split cowhide
- Unlined

**Part No. 2010: S, M, L, XL**



- Premium goat grain leather
- Select shoulder split cowhide
- One piece back
- Unlined

**Part No. 2020T: M, L, XL**



- Premium shock absorbent goat grain leather
- Reinforced suede goatskin palm
- Unlined

**Part No. 2040T: S, M, L, XL**



- Premium goat grain leather
- Unlined

**Part No. 2030T: S, M, L, XL**

Fleece Lined Goatskin Drivers  
**Part No. 2050T: M, L, XL**

## Mechanics & High Temperature Gloves / Mittens

### Mechanics Gloves



- Synthetic leather palm spandex back
- Breathable
- G-Grip™ anti-slip traction patches ensures effortless, secured grip

**Part No. 1950:** S, M, L, XL



- Heavy-duty Impact-X™ knuckle protection with reflective trim.
- Synthetic leather palm spandex back
- Breathable
- G-Grip™ anti-slip traction patches ensures effortless, secured grip

**Part No. 1952:** S, M, L, XL, XXL



- Goatskin palm/spandex back
- Breathable
- G-Grip™ anti-slip traction patches ensures effortless, secured grip
- Neoprene knuckle protection

**Part No. 1955:** S, M, L, XL, XXL



- Pig grain palm/spandex back
- Breathable
- G-Grip™ anti-slip traction patches ensures effortless, secured grip
- Neoprene knuckle protection

**Part No. 1956:** S, M, L, XL, XXL

### High Temperature Gloves & Mitten



- 14" Clute cut jumbo size heat glove
- Wool/felt lined
- Wing thumb
- Treated fiberglass material

**Part No. 925-15**

Same as 925-15 (above) constructed with a blended Kevlar® fabric.

**Part No. 960-15**



- 14" Clute cut glove
- Leather reinforced palm & thumb
- Wool/felt lined
- Wing thumb
- Treated fiberglass material

**Part No. 925-17**



- 14" Gunn cut fully welted glove
- 100% wool lined to wrist
- Aluminized leather, one-piece back
- Wing thumb
- Protects against reflected heat

**Part No. 925-72**



- 14" length reversible mitten
- Provides "double wear" life
- Wool/felt lined
- Treated fiberglass material

**Part No. 925-13**



- Kevlar® brand fiber
- Cotton inside
- 7-gauge knit with palm coat

**Part No. 9368:** S, L

## Premium Hot Mill & Welding Gloves

### Premium Hot Mill Gloves



- 24 oz
  - Band top
  - Nap out
  - 2" cuff
- Part No. 6210: L**



- Gauntlet cuff
  - 24 oz
  - Nap out
  - 4.5" cuff
- Part No. 6220: L**



- Band top
  - Burlap lined
  - 32 oz
  - Heavy duty
  - Nap out
  - 2" cuff
- Part No. 6230: L**



- Gauntlet cuff
  - Burlap lined
  - 32 oz
  - Heavy duty
  - Nap out
  - 4.5" cuff
- Part No. 6240: L**

### Welding Gloves



- Blue shoulder split cowhide
  - Reinforced palm
  - Fully welted finger tips
  - Complete sock lined
- Part No. 1413T**



- Rust, 18" cowhide, sewn with Kevlar®
  - Protects forearm to elbow
  - Reinforced palm, Velcro® strap cuff
  - Airfoam® insulated back
- Part No. 1468**



- TIG kidskin welder's glove
  - Unlined
  - Long cuff
- Part No. 1600-6: XL**



- Split cow welder gloves
  - Select shoulder leather
  - Sewn with Kevlar®
  - Reinforced straight thumb
  - Black cotton drill cuff lining
- Part No. 4320**



- Gray quality shoulder/ belly split cowhide
  - Full Fleece palm lining
- Part No. 4910B:L**



- 14" red shoulder split cowhide
  - Reinforced palm
  - Fully welted finger tips
  - Complete sock lined
- Part No. 4922B: Bulk**



- Premium shoulder brown split cowhide
  - Reinforced thumb strap protection
  - Sewn with Kevlar®
  - Full palm lining
  - Heavy duty
- Part No. 4930T:L**



- Side split cowhide.
  - Reinforced thumb guard and strap protection
  - Sewn with Kevlar™
  - Gunn pattern.
  - Wing thumb.
  - Fully welted, turned cuff.
  - Extra heavy duty foam and fleece lining.
- Part No. 4970T**

## Welding Gloves / Back Hand Pads

### Welding Gloves



- 14" Gunn cut welding glove
- Continuous one piece back
- Synthetic lining
- Fully welted
- Wing thumb and turned cuff

**Part No. 920-10**



- 13" Gunn cut glove
- Continuous one piece back
- Synthetic lining
- Thumb, index finger and outside seam welted
- Wing thumb and turned cuff

**Part No. 920-11**



- Clute cut, flame retardant terry cloth glove
- Designed specifically for welders
- Protects against heat, cuts and abrasions

**Part No. 920-20**



- Ladies welding glove
- Blue 12" Gunn cut
- Synthetic lining
- Fully welted
- Wing thumb and turned cuff

**Part No. 920-24**



- 14" Clute cut welding glove
- Continuous one piece back
- 100% wool lined to wrist
- Fully welted
- Wing thumb and turned cuff

**Part No. 920-5**



- 13" Gunn cut welding glove
- Continuous one piece back
- Synthetic lining
- Thumb and index finger welted
- Wing thumb and turned cuff

**Part No. 920-60**



- Blue 14" Gunn cut welding glove
- Continuous one piece back
- Synthetic lining with fully welted lock stitch construction
- Wing thumb and turned cuff

**Part No. 921-5**



- Black 14" Gunn cut glove
- Aluminumized leather one-piece back and thumb to protect against direct and reflected heat
- Cowhide palm, fully welted
- Wing thumb and turned cuff

**Part No. 925-70**



### Glove Accessories



#### Back Hand Pads

- Protects the back of welder's glove from weld spatter and high radiant heat.
- Increases the life of your glove.
- Helps you to weld longer when exposed to high radiant heat.

**Part No. 920-75-** Single layer protection

**Part No. 920-85-** Double layer protection



### Aluminized Weld-O-Glass Back Hand Pad

Protects the back of welder's glove from weld spatter and high radiant heat. Increases the life of your glove. Helps you to weld longer when exposed to high radiant heat. Provides good mobility for gloved hand. Double layer protection—Wilson Weld-O-Glass 2600 AMA on top and a high temperature glass fabric on the bottom. Sewn and riveted for added durability.

**Part No. BHP06**



## MIG / TIG Gloves



- Premium goat grain leather
  - Premium select shoulder split cowhide safety cuff
  - Straight thumb
  - Clute cut
- Part No. 4510:** L, XL



- Extremely soft suede
  - Premium select shoulder split cowhide safety cuff
  - Sewn with Kevlar®
  - Straight thumb
  - Gunn cut
- Part No. 4520T:** S, M, L, XL



- Extremely soft suede
  - Premium select shoulder split cowhide gauntlet cuff
  - Sewn with Kevlar®
  - Straight thumb
  - Turned cuff
  - Gunn cut
- Part No. 4530T:** M, L, XL



- Premium goat grain leather
  - Premium select shoulder split cowhide on safety cuff, back of palm and thumb
  - Sewn with Kevlar®
  - Straight thumb
  - Gunn cut
- Part No. 4540T:** S, M, L, XL



- Premium goat grain leather
  - Premium select shoulder split cowhide safety cuff
  - Sewn with Kevlar®
  - Straight thumb
  - Gunn cut
- Part No. 4560T:** S, M, L, XL



- Premium goat grain leather
  - Premium shoulder split cowhide gauntlet cuff
  - Sewn with Kevlar®
  - Wing thumb
  - Turned cuff
  - Heavy duty
  - Gunn cut
- Part No. 4570T:** S, M, L, XL



- Premium sheep leather
  - Premium shoulder split cowhide gauntlet cuff
  - Sewn with Kevlar®
  - Wing thumb
  - Turned cuff
  - Heavy duty
  - Gunn cut
- Part No. 4580T:** M, L

## TIG Gloves



- Gunn cut TIG welding glove
  - Made from full grain, light weight pigskin
  - 4" cuff, straight thumb
  - Unlined
- Part No. 920-16**



- Gunn cut TIG welding glove
  - Light weight, soft, pliable
  - Cork colored deerskin
  - Wing thumb
  - Unlined
- Part No. 920-17:** S, M, L, XL



- Gunn cut TIG welding glove
  - Pearl grain sheepskin palm and straight thumb
  - Buck tan cowhide back and 2-1/2" buck tan cuff
  - Unlined
- Part No. 920-18**



- Gunn cut TIG welding glove
  - Light weight, extra soft, pliable
  - Pearl Cape-skin leather
  - Wing thumb
  - Unlined
- Part No. 920-19:** S, M, L, XL



## Welding / Protective Blankets and Roll Goods

Blanket/ Roll Good	Material	Temperature		Suggested Applications					
		Upper Limit	Continuous Operating	Drop Cloths	Slag Protection	Vertical Spark	Heat Containment Curtains	Welding Blankets	Welding Curtains
OKI-GLASS	100% Fiberglass	1000° F	1000° F	•		•	•	•	•
OKI-VGLASS	Vermiculite coated	1200° F	1000° F	•	•	•	•	•	•
OKI-NeoGuard	Acrylic coated	1000° F	225° F*	•	•	•		•	•
OKI-SIL	Silica	3000° F	1800° F	•	•	•	•	•	•

\* A limit of Neoprene with acrylic

### Blankets

Use to protect equipment near hazardous operations such as welding or grinding.

- Heavy duty hemmed on four sides.
- Standard grommets on 24" centers.

**Note:** Blanket sizes may vary up to 3" in width and height.

#### OKI-GLASS

Woven from 100% fiberglass yarns, OKI-GLASS fabrics offer excellent protection against vertical spark and slag when used as drop cloths and heat containment curtains in light-to-medium-duty welding applications.

- Heat cleaned.
- Continuous protection to 1000° F (538° C).
- 100% woven textured fiberglass.
- Durable – ideal for applications where fabric must be moved frequently.
- Strong, flexible and versatile.
- Abrasion resistant.
- Low irritation factor.
- Resistant to most chemicals.
- Melting point: 1000° F



Weight	Blankets*		Roll Goods	
	Part No.	Size	Part No.	Size
18 oz.	918-18-9	3' x 3'	918-1840	40" x 50 yd.
	918-18-36	6' x 6'	918-1860	60" x 50 yd.
	918-18-48	6' x 8'		
	918-18-100	10' x 10'		

\*Blankets include grommets on 24" centers on 4 sides except 3' x 3' which are on 4 corners only.

#### OKI-VGLASS

Black vermiculite-coated OKI-VGLASS boosts heat resistance by more than 20%. OKI-VGLASS provides outstanding slag protection in a variety of medium-duty welding applications; its enhanced temperature resistance characteristics make it an ideal fabric for heat treating, heat containment curtains, and drop cloths.

- Remains stable to 1200° F (648° C).
- Better temperature resistance than plain fiberglass.
- Superior abrasion resistance.
- Safe and cost-effective.
- Blankets and curtains for stress relief and heat containment available from stock, or in custom sizes and configurations per your specifications.



Weight	Blankets*		Roll Goods	
	Part No.	Size	Part No.	Size
26 oz.	951-26-9	3' x 3'	951-2640	40" x 50 yd.
	951-26-36	6' x 6'	951-2660	60" x 50 yd.
	951-26-48	6' x 8'		

\*Blankets include grommets on 24" centers on 4 sides except 3' x 3' which are on 4 corners only.

#### OKI-NeoGuard

Choose neoprene with acrylic-coated NeoGuard for extra durability. Woven from 100% fiberglass yarns, NeoGuard fabrics offer excellent protection against vertical spark and slag when used as drop cloths and heat containment curtains in light-to-medium-duty welding applications.

- Gold, 100% woven textured fiberglass fabric with acrylic coating.
- Fabric remains stable to 1000° F; acrylic coating is limited to 225° F continuous.
- Made tough to last long in high traffic areas or where fabric must be moved frequently.



Weight	Blankets*		Roll Goods	
	Part No.	Size	Part No.	Size
24 oz.	916-24-9	3' x 3'	916-2440	40" x 50 yd.
	916-24-36	6' x 6'	916-2460	60" x 50 yd.
	916-24-48	6' x 8'		
	916-24-100	10' x 10'		
	916-24-144	12' x 12'		

\*Blankets include grommets on 24" centers on 4 sides except 3' x 3' which are on 4 corners only.

#### OKI-SIL

The ultimate in high temperature welding protection! With a melting point of 3000° F, OKI Silica fabrics offer welders protection in applications from heat treating to stress relieving to drop cloths over equipment and floors.

- Continuous protection to 1800° F (1000° C).
- Melting point: 3000° F (1649° C).



Weight	Blankets*		Roll Goods	
	Part No.	Size	Part No.	Size
18 oz.	915-18-9	3' x 3'	915-1836	36" x 50 yd.
	915-18-36	6' x 6'		
	915-18-48	6' x 8'		

\*Blankets include grommets on 24" centers on 4 sides except 3' x 3' which are on 4 corners only.

## Tarps / Maintenance Sorbents / Flagging Tape

### Blue Polytarps

- Heavy-duty double laminated coating.
- Extra strength weave.
- Sun and fade resistant.
- Rust proof grommets.
- No leaks, No tears.
- Heat sealed seams.
- Grommets every 3 feet.
- Rope reinforced hem.
- Color: blue.



Part No.	Cut Size
MT68	6' x 8'
MT810	8' x 10'
MT912	9' x 12'
MT1012	10' x 12'
MT1216	12' x 16'

Part No.	Cut Size
MT1620	16' x 20'
MT2020	20' x 20'
MT2030	20' x 30'
MT2040	20' x 40'
MT3040	30' x 40'

### Rubber Tarp Straps

- Super strength compounded rubber lasts longer.
- Ozone, weather, wear, tear and abrasion resistant.
- Resists deterioration in outdoor environments.
- Reinforced ends.
- Cadmium plated sturdy steel "s" hooks.



Part No.	Length
RS-21	21'
RS-31	31'
RS-41	41'

## 3M Industrial Products

### Maintenance Sorbents

#### High Capacity Folded Sorbents

This sorbent will "sorb" most non-aggressive liquids and is used in maintenance applications. There are three boxes of 5' x 50' rolls per case weighing 18 lbs. and have a capacity of 10.5 gallons. High capacity sorbents have a scrim on one side to increase strength and eliminate linting. A folded sorbent is dispensed from a carrying/dispenser box in the form of a continuous roll. With perforations every 16", folded sorbents can be used as a pillow, pad, roll or boom. Applications range from maintenance to spill response. Folded sorbents are the most versatile sorbents and are a patented 3M™ product.

Part No. M-FL550DD



#### Mini-Boom Maintenance Sorbents

Will "sorb" most non-aggressive liquids and is used in maintenance applications. Each case contains six booms which will absorb 2 gallons each. A case weighs 12 lbs. Mini-booms are typically used to encircle spills and to contain leaks. A 3-inch diameter scrim on the outside of the boom identifies the application. This mini-boom is 8-feet in length.

Part No. M-MB308



### Flagging & Barricade Tape

- High visibility colors.
- Durable plastic remains pliable in cold weather.
- Use to identify boundaries for surveying work, recreational applications, and for identifying personal possessions in busy areas.



Part No. 77-0201

Part No.	Length	Description
77-0201	3" x 200' yellow	CAUTION
77-002	1" x 200' orange	FLAGGING
77-003	1" x 200' pink	FLAGGING
77-004	1" x 200' yellow	FLAGGING
77-1001	3" x 1000' yellow	CAUTION
77-1004	3" x 1000' red	DANGER