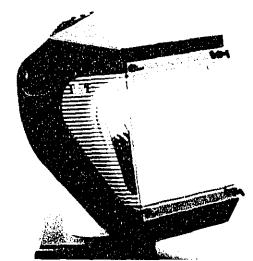
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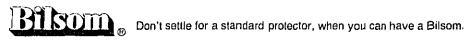
SAFETY SOLUTIONS CATALOG HEARING/HEAD/EYE/FACE PROTECTION PRODUCTS



NEW VISION™ WELDING HOOD



NEW LEG PROTECTION/IMPROVED EYE PROTECTION





Bilsom International, Inc.

11800 Sunrise Valley Drive, Reston, VA 22091-5358, 703/620-3950

Dear Safety & Health Professional:

Successful New Products . . .

Last year we introduced several new products via this catalog. Your reception of these innovative products has been most gratifying.

Our Combi $^{\mathsf{TM}}$ units with replaceable lenses (page 15) have filled a very important need for many customers. Workers reception has been exceptional to this new concept in eye protection.

Your reception to our 3-way Pro System units has prompted us to introduce additional designs (page 16).

Compact, our new low profile ear muff, has also allowed many workers to use a quality, lightweight muff with their face and head protection for the first time (page 12).

. . . Spurs More Innovations!

Again, Bilsom is proud to <u>break tradition</u> with our new VisionTM Welding Hood. In fact, Vision's design varied from current standards, so we had to provide technical documentation to OSHA that Vision offered equal protection to traditional welding hoods.

With this documentation, OSHA issued a letter stating Vision offered equal or better protection (See page 1). So, you can be assured of outstanding protection along with Vision's special benefits (page 2).

We've also brought our innovative Pro LegginsTM from our Outdoor Safety Division. The polyester material used in our leg protectors have received the highest safety rating from the U.S. Forest Service (page 17).

We certainly appreciate your support and hope you'll continue to send us your comments on both our new, as well as our established products.

Sincerely,

SILSOM INTERNATIONAL, INC.

Rolland Westerdal

President

Hamel

RW/daw

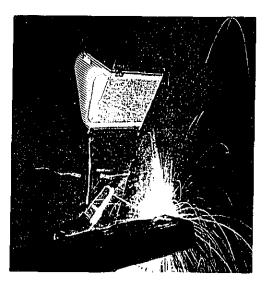
P.S. - See our special offers at back of catalog

See our New "Vision of the Future" page 1 & 2
Use Special Reply Card at Back

NEW—UNIQUE—COMFORTABLE COMBI EYE PROTECTION See page 15 for details

BILSOM SAFETY PRODUCTS CATALOG

HEARING • EYE • FACE • HEAD PROTECTION















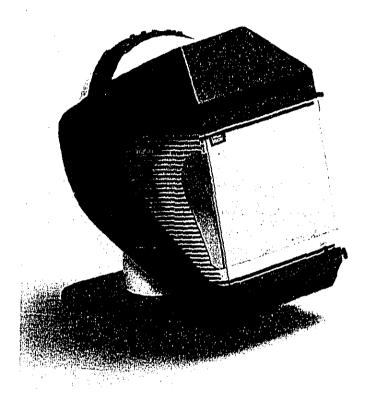


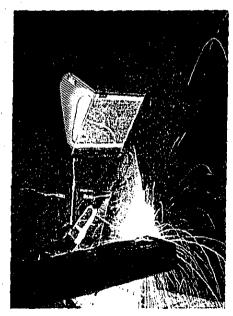


Product and Price Information

© Bilsom International, Inc. 1987

P87





Basom Vision™

Vision broke the standard so you can see the advantages!

We thought welders had a very limited vision of their working world, so we opened up a large peripheral viewing area that allows you to see the entire job before, during and after lighting your arc. Of course, we had to prove to OSHA that this larger viewing area was safe against UV and IR exposure to the face and eyes. After months of testing, John B. Miles, Jr., OSHA Director of Field Operations, wrote:

"OSHA has determined that (Vision Weld) can provide protection equivalent to that specified by OSHA standards."

- · Hood is always in "down" position for maximum protection
- · Excellent protection against UV and IR light rays
- Foil reflects 80% of light and 85% of heat away from face
- · Increased protection from co-workers' flash and slag
- · Lightweight and flexible to resist cracking
- Use for chipping, grinding and many other jobs
- More accurate welds to increase production and efficiency

Technical information

Weight: Helmet:

15.5 ozs.

Panel:

Crack resistant nylon 3 layers heat resistant

polycarbonate plus laminated

reflective foil

Filters: Viewing Area: Optical quality plexiglass

Front-6 x 9" Filter-41/4 x 23/8"

Protection, Productivity and Efficiency are yours with these unique benefits

- ① Ability to see entire area before and after arc is lit with hood down.
- ② Adjustable filter plates in a variety of shades.
- (9) Increased UV and impact protection from 3 layers of polycarbonate.
- Additional IR protection from aluminum foil reflecting 80% of light.
- O Unit weighs less than 1 lb.
- Personal adjustments on headgear.

Product No. 3460

Complete Vision Hood with headgear and filter plat	le
or Shade 10 equivalency.	
I9 units	ch
IO_19 units 40.35 ear	

ioi ciliado To oquivalerios.	
1-9 units	\$41.60 each
10-19 units	
20 or more units	39.55 each

Product No. 3471

Optional throat gua	rd with ve	eloro strap	
1-9 guards			9.40 each
10-19 guards			9.10 each
20 or more guards			

Replacement Plexiglass Filter Plates

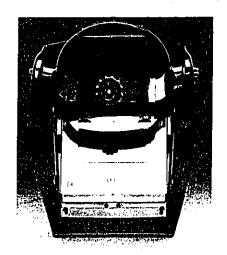
Product No. 3462—for Shade 9 equivalency
Product No. 3463—for Shade 10 equivalency
Product No. 3464—for Shade 11 equivalency
Product No. 3465—for Shade 12 equivalency
1-9 filter plates
10-19 filter plates
20 or more filter plates

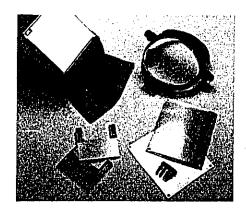
Product No. 3470

Replacement nylon headgear with ratchet adjustment	
1-9 headgears\$	
10-19 headgears	

Replacement Polycarbonate Front Panels and

Product No. 3468—Clear Panel	
1–9 units	4.85 each
10-19 units	.4.75 each
20 or more units	.4.60 each
Product No. 3469—Tinted for aluminum w	elding
1-9 units	1.05 each
10-19 units	
20 or more units	0.45 each

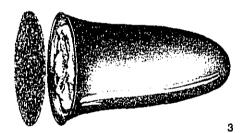






New and Improved Hearing Protection





Bilsom. soft

New Product Features

Bilsom's new SOFT ear plug combines our high-attenuating fibers with a thin layer of foam (figure 1). The plug is then preformed in a smooth, dirt-repellent plastic film (figure 2). And to top if off, we have added a thin foam lid to hold it all in place (figure 3).

Improved Consumer Benefits

- Easier fitting from resiliency of loam
 More secure fit with deeper insertion
 Better comfort from soft fibers
- · Increased worker acceptance in field test
- Pre-shaped requires no rolling or shaping
- Closed top for easier removal
- Better visibility for compliance checks





Bilsom. soft

Three Packaging Choices! Including NEW Industrial Dispenser!

Soft ear plugs are available in three dispenser formats to meet your every need.

Industrial Dispenser Refil!-NEW

Dispenses one pair of clean, ready-to-use SOFT plugs at the push of the button. Contains 400 pair and works with our economical Proppomat Universal dispenser #0004. This dispensing system adds a high degree of visibility to your hearing conservation program. Protection is always available for employees as well as visitors and occasional users. Dispenser Refill packaging offers you 10% lower prices.

SOFT Dispenser Refill Product No. 5056

(Works with Universal Dispenser #0004.

See Page 5).

1-9 Dispenser Refills (400 pair)...... \$ 57.50 ea. 44.75 ea. 38.50 ea.

Single Pair Pack

Colorful, sturdy dispenser contains 400 pairs of SOFT ear plugs. Swing-out drawer and individual packets offer best hygiene for many industrial areas. Perfect for stationary work situations.

Product No. 5046

1 . 0 . 0 . 0 . 0 . 0 . 0	
1-9 Dispensers (400 pair)\$	62.25 ea.
10-29 Dispensers	52.00 ea.
30 or more Dispensers	47.50 ea.

Five Pair Pouch

Resealable pouch contains five pair of SOFT ear plugs. Sturdy dispenser with 80 pouches (400 pair) can be used alone or with special wall shelf #0006. Pouch can be carried in pocket or tool box and is best when personnel are in non-stationary work situations. See #0006 shelf, page 6.

Product No. 5036

1-9 Dispensers (400 Pair) \$ 62.25 ea. 10-29 Dispensers 52.00 ea. 30 or more Dispensers..... 47.50 ea.









Bilsom P.O.P

The Most Hygienic Plug Available.

These comfortable ear plugs can be worn almost unnoticed by everyone. P.O.P is completely disposable for the best hygiene in any industrial situation. No rolling or molding is necessary.

P.O.P allows air and moisture to pass through into the ear canal, eliminating feelings of pressure and vacuum. Easy insertion is obtained with the polyethylene film wrapper.

P.O.P Dispenser Refill

Works with Propportal Universal Dispenser No. 0004 or old style No. 0003. Contains 500 pair of plugs.

Product No. 5521

1-4 Refills (500 pair)\$	72.00 each
5-29 Refills	56.25 each
30 or more Refills	47.75 each

Product No. 0004

Wall-Mounted Universal Dispenser

Trail Houriton Orniforda Disponder		
1-9 Dispensers	\$40.00	each
10 or more Dispensers		

P.O.P Pocket Pouch Dispenser

Holds 50 pouches of 10 pair of plugs. Great to carry in tool box or pocket. Keeps plugs hygienically clean. Dispenser is sturdy cardboard and can be hung directly on wall, placed on shelf, or can be used with plastic shelf No. 0006.

Product No. 5026

1-9 Dispensers (500 pair)\$	77.75 each
10-29 Dispensers	64.50 each
30 or more Dispensers	59.25 each

Wall	Sheli	for	No.	5026	
Prod	uct N	lo. O	006.		

..... \$ 4.50 each

Bilsom e

Eardown

The original disposable used by workers worldwide for over 20 years. Eardown Pocket Pack is still available in both the handy pocket packs (No. 2000) and the refill (No. 3001) with dispenser (No. 0002).

Billsvom Per-Fit®

Improved, softer silicone

Per-Fit has been reformulated with a softer silicone formula for even more comfort than ever before. This softer sillcone allows easier insertion and more comfortable fit all day long. Per-Fit will outlast PVC plugs by many months and is still non-toxic and nonallergenic for your safety.

Now in two sizes.

Medium/Large size has unique conical shape which allows it to fit approximately 85% of all ear canals. New Small size has a collapsible air cavity that allows snug, comfortable fit in small canals.

Each pair of Per-Fit plugs comes with its own storage case and handy chain that allows the case to be kept on belt loop or safety cap. For best hygiene and long-lasting protection, daily washing with mild soap and warm water is recommended to remove dirt and contaminants. Packed 40 pair per unit.

Per-Fit with Safety Cord

Safety neckcord recommended for canning, bottling, and similar processing areas. Cord also helps to prevent lost plugs.

Product No.	5604—Small (green)
	5603-Medium/Large (blue

1-4 units of 40 pair\$ 64.00 each

Per-Fit without Safety Cord

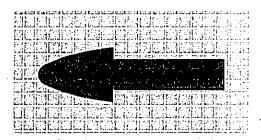
For most industrial situations.

Product N	0. 560)2Small	(green)	
Product N	o. 560)1Medii	ım/Large	(blue)

1-4 units of 40 pair \$ 52.80 each 25-49 units of 40 pair 38.40 each

Larger quantities quoted upon request.

NRR = 26 as tested



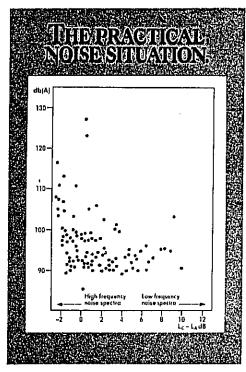




What can we learn from NIOSH's Sample of 100 Industrial Noise Spectra?

The following observations can be made from the lllustrated chart of the NIOSH Noise Spectra.

- A full 90% of the noise spectra falls below 105 dB(A).
- There is no single low frequency noise situation exceeding 105 dB(A). In fact, the vast majority of noise environments are dominated by high frequency noise.
- Required noise attenuation for a noise environment of 105 dB(A) is a 22 dB Noise Reduction Rating (NRR), after the OSHA required 7 dB safety margin is considered.
- If your company has access to and uses a noise level meter with C-scale readings, a noise level of 105 dB(C) requires only a 15 dB NRR.
- We can conclude that the vast majority of industrial noise environments do not need NRR values of 25-30 dB.



The A-weighted sound levels of 100 noise spectra selected by NIOSH as being typical for industry in U.S. have been plotted against the differences between their C-weighted and A-weighted sound levels $\{L_c \cdot L_s\}$.

How Useful is the NRR?

The NRR values, required by EPA and used by manufacturers, are indeed making the selection of hearing protection easier, but are you aware of what is being sacrificed?

As we have seen above, low frequency noise environments are only a small fraction of the industrial noise environments. The NRR value is, however, a simplification and in order to adequately protect the few individuals exposed to low frequency noise, the majority ends up being over-protected.

Is there anything wrong with over-protection? Yes, in fact over-protection is undestrable if it leads to the choice of a less comfortable protector, or one that prevents communication when in use, A protector with a high NRR inevitably has high attenuation in the low frequencies which will lead to communication problems. If you choose a hearing protector with less low frequency attenuation, but good attenuation in the higher frequencies, you could get both the protection you need and the ability to communicate.

Your choice is, therefore, between simplicity or accuracy. You can achieve simplicity by subtracting published NRR values from readings obtained by using a noise level meter with a dB(C) scale. Accuracy can be achieved by using NIOSH Method #1, which evaluates each noise environment on its own noise frequency distribution, as well as the protector's capabilities.

What is the Difference between Field Attenuation and the Manufacturer's Data?

Manufacturers' data represents correct fitting in accordance with manufacturers' usage instructions, and a product test as specified in ANSI S.3.19-1974. These values are usually close to optimal, since the test subjects are required to follow usage instructions to the letter. This practice is necessary in order to make product tests repeatable.

Field data represents hearing protection as it is being used in the field. Proper hearing conservation methods, including training in the proper use and fitting of hearing protection tend to minimize the difference between laboratory and field data. The better organized and implemented your hearing conservation program is, the more you should be able to rely on the published NRR values.

The final judge of your hearing conservation program's effectiveness is your annual audiograms. If no new hearing damage is occurring, your program is working.

Bilsom. Muffs

Universal

Your Best Muff for Value

These lightweight muffs offer excellent protection, comfort, durability and versatility at a very competitive price.

They are both designed for all day comfort in most industrial situations. Excellent protection is provided in all frequencies. Bilsom Universal Muffs are fully

Both feature soft, supple feam-filled ear cushions, as well as a fully rotating headband that rotates 360° and allows each individual to choose the most practical and comfortable wearing position. Bilsom Universal Muffs also feature sliding cups and flexible, self-aligning connections to assure a comfortable allday fit.

UF-2 Muff

Our lightest weight muff (4.8 oz.) comes with standard headstrap. Bright contour designed yellow cups add to the very attractive appearance of this muff. Product No. 2450 (UF-2)

1-9 Mulis	\$ 8.60 each
10-59 Mults	8.20 each
60 or more Mulis	7.60 each

UF-1 Muff

Our most popular muff. Tough glass-fiber reinforced headband assures long life even under worst industrial conditions. Weighs only 6 ozs. Qualified Military Type II Muff.

Product No. 2308 (UF-1)

1-9 Muffs	\$ 10.50 each
10-59 Muffs	10.00 each
60 or more Mulfs	9.35 each

Now Includes Headstrap

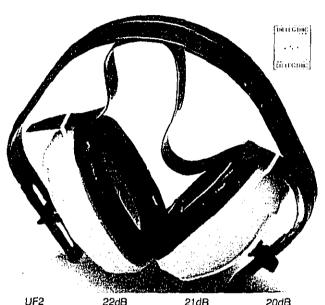
IMPORTANT

Proper sealing of the ear cushions is critical to ear muff performance. The cushions tend to harden with use and it is recommended that cushions be replaced every three months of routine use.

RECOMMENDATION

Order one or more pair of hygiene kits (page 11) with your earmuff purchase.

All prices quoted are suggested resale prices.



22dB 21dB 20dB Noise Reduction Rating





BISOIN Comfort Muff

Designed with Comfort in Mind

Everything about this muff is for your comfort. Wider cushions allow use of even softer foam in the cushions. Pressure is spread over a wider area for more comfort. Soft foam is also used in the headband pad to cushion top of head.

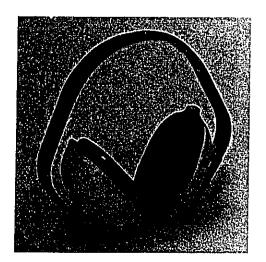
Easy slide adjustment of cups for most comfortable position. Head strap is standard with every mulf for extra secure fit when used in all three wearing positions. Comfort is fully dielectric.

Stylish design and attractive red/black coloring combination makes the Comfort muff one of the most attractive muffs on today's market. Weighs 7.5 ozs

Product No. 2315 (MDF-1)

1-9 Muffs\$	14.25 each
10-59 Muffs	13.50 each
60 or more Muffs	12.50 each

NRR = 25/24/23 as tested



Bilsom

Universal Liquid Muff

Cool and Comfortable.

Same great benefits as the UF muff, but the ear cushions are filled with a cooling glycerine liquid. Especially useful in high-ambient temperatures or similar conditions. The UL muff weighs 8.6 ozs. and uses Hygiene Kit #2304. Frequent checks for wear of cushions is recommended.

Not recommended for welding or other operations where puncture of seals may occur. Any liquid seal is unsuitable for use in cold temperatures.

NRR VALUE of 22 dB in overhead position.

Product No. 2301 (UL-1)

· /	
1-9 Muffs\$	12.80 each
10-59 Muffs	12.00 each
60 or more Muffs	11.20 each

BISOM, Viking Muff

Heavy Duty Protection

Superb attenuation in all frequencies, especially in the troublesome low frequencies. Best heavy duty muff available. New design incorporates several new features to improve attenuation and comfort. Wider ear cushions spread pressure over larger area for more comfort. Headband is equipped with a soft pad for extra comfort and stability, when worn in the overhead position. The extra-deep cups are filled with Bilsom's acoustic fibers. The acetal headband is designed for comfort-initial pressure is high to insure best fit, but gradually relaxes after about 20 minutes to a more comfortable level. As with all Bilsom muffs, personal adjustments are possible by simply sliding the cups up or down. All connections are flexible and self-aligning to help assure correct angle is maintained throughout the entire workday.

The included headstrap is designed to give extra stability when the Viking muff is used in the behind-the-head or under-the-chin positions.

The Viking muff weighs only 8.8 oz. Uses Hygiene Kit No. 2311. Can be used in 96% of industrial noise situations.

Product No. 2318 (SDF-1)

1-9 Muffs\$	19.65 each
10-59 Muffs	18.65 each
60 or more Muffs	17.30 each

 $NRR = 29/28/28_{as tested}$

IMPORTANT

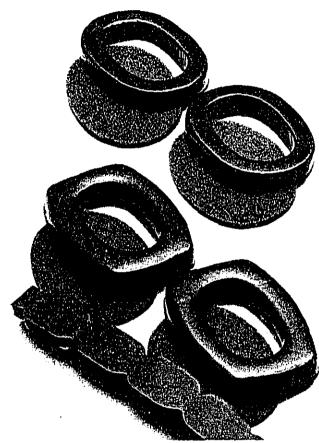
Proper sealing of the ear cushions is critical to ear mulf performance. The cushions tend to harden with use and it is recommended that cushions be replaced every three months of routine use.

RECOMMENDATION

Order one or more pair of hygiene kits (page 11) with your earmuff purchase.









BILOTH, Hygiene Kits

Economical Replacement Kits for Bilsom Earmuffs

Two easily replaceable, snap-in cushions and two foam pads for use with product numbers 2450, 2308, 2301, 2454, 2309.

 Product No.
 2310 (Foam)
 2304 (Liquid)

 One Kit
 \$ 3.45 each
 \$ 4.00 each

 Carton of 10 Kits
 \$ 30.50 each
 \$ 36.50 each

For Comfort and Viking model numbers 2315, 2318, 2313, 2314. Each kit contains two snap-in ear cushions, two foam closing pads, and a replacement headband pad. Replacement recommended every three months of normal use.

Bilsom cool

Absorbent Muff Pad

Multiple layers of super-thin, super-soft absorbent paper that really soaks up perspiration. Keeps you COOL and comfortable all day long.

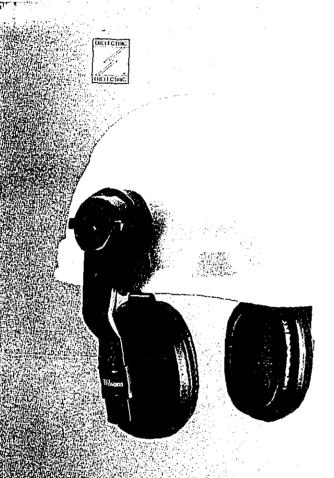
Perfect for extra-dirty environments (foundry, mining) and chemical processing areas. Economical enough to be used as a disposable, but tough enough to be reused for one week in many work environments.

Each handy dispenser contains 20 reseatable pouches of 5 pair, or 100 pair of pads. Sturdy dispenser can be hung on wall or act as a free-standing unit.

Product No. 3451	
1-9 Dispensers (100 Rair)\$	28.00 each
10-59 Dispensers	25,00 each

Now Available in Single Pair Dispenser
Easy slide tray dispenses a single pair of pads at a
time. Each pair is kept clean and ready to use.

Product No. 0009	\$ 10.70 each
Coolomat Dispenser Refill	
Product No. 3452	
1-9 Refills (100 pair)	\$ 24,00 each
10 or more Refills	21.00 each



BISOM Helmet Muff

Lightweight and Economical

The Bilsom HF-6 is a sturdy, extremely lightweight (6.2 ozs) mulf that allows you the same personal comfort and versatility of the Bilsom Comfort and Viking mulfs for safety caps. Matte black finish on modern contoured cup.

The HF-6 muff works with all the Slotted cap adaptors, Universal cap adaptors and the Screw-On adaptors found on page 14 for a wide variety of safety caps.

Product No. 2454 (HF-6)

1-9 Muffs	\$14.05 each
10-59 Muffs	13.20 each
60 or more Mults	12.25 each
Adaptor required, see page 14.	

NRR = 22 as tested





Bisom Compact Muff

Use with Welding Face Protection

This uniquely designed protector solves an age old problem of combining ear muffs with other required protection. Until now, there had to be a compromise.

Compact, with its recessed neckband, is designed to fit easily under most popular face shields, screens, and welding hoods. Light (5 ozs.) enough to be worn all day. Compact is the answer where normal mufts won't fit.

Uses Hygiene kit No. 2310 Product No. 2470

											275
	1-9 M	lutte.							. \$1	1.75	each
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	i N-or	ıwı	18		*****		.,,,,,		, . 1	1.00	each
6	in or	more	a:Múi	lfa :	Pr. 1.				-: 1	0 AN	each
			- , . , . ,			,	******		***,	v. 70	vuul 1



Comfort Muff for Safety Caps

Versatility and Comfort

All the great benefits of the regular Bilsom Comfort Muff are now available in a safety cap attachable model. A wide range of adaptors for all types of safety caps is listed on page 14. Weighs only 8.1ozs. per pair. The Bilsom Comfort Muff has a convenient "rest" position built into each arm that allows the ears a quick "breather" during quiet periods.

A special "break-away" safety feature is designed to lessen impact force from falling objects (Photo A). You can also adjust pressure of each arm independently by turning knob at top of arm (Photo B). This adjustment helps compensate for different widths of safety caps and allows you maximum comfort with full attenuation.

Product No. 2313 (MHF-20)

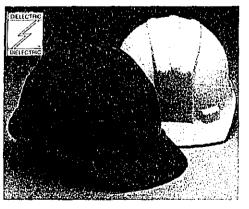
1-9 muffs	16.15 each
10-59 muffs	15.30 each
60 or more muffs	14.25 each

Adapter required, see page 14.





Interestor



BISOM. Safety Cap

Head Protection with Bilsom Quality

This tough polyethylene cap is designed to protect you against the one accident that we all hope will never happen. The Bilsom 4 point suspension system gives a comfortable, but secure fit for all day use—no matter how hard you work.

Bilsom caps will meet or exceed Class A and B requirements of ANSI Z89.1-1981 standards. You can choose from a variety of colors—White (W), Orange (O), Red (R), Yellow (Y), and Blue (B). Use color code as suffix when ordering.

Bilsom cap uses adaptor No. 3317 and accommodates the three muff models for safety caps and the face shield or face screens featured on page 16.

Product No. 2604 (Color Code)

, (Oddot (40, 2004 (2010, Oddo)	
1- 25 Caps	\$4.30 each
26-199 Caps	
200 or more Caps	

Bisom. Viking Muff for Safety Caps

For Extra Protection

All the great benefits described for the Bilsom Comfort salety cap model plus an extra deep ear cup to provide additional protection against low frequency noise—mining, construction, etc. Weighs only 9.4 ozs.

Viking cap mulf works with all the adaptors listed below to enable use with all major safety caps.

Allows face shield and screens to be used with or without ear mulls, see page 16.

Product No. 2314 (SHF-30)

1-9 mulle	क्षी के प्रमुख्य करते । के वे व व व व व व व व	***	4		.\$22.25 each
₹10-59 mu	[is::::::		296.1.3	145	. 21.10 each
60 or mo	ê mulle	10.00			. 19.55 each

Adapter required, see below.

Bilsom, Slotted Cap

Adaptor

Now/one/adaptor/file all major alorted safety caps.
Easies way or adapt the Blisom or other leading caps of a complete learing/head projection system. Also allowades of Blisom race shields and acreens (e.g., i.b) i.c. // Away protection: No cools regularly as a complete yellowades of the complete yellowards.

Bayens in illa completely detection:

Sec. 50 pair

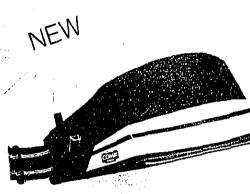
Bilson (Gro Astrocal Grown all consideration and the construction of the construction













B1SOM Vision Combi™

The Safety Goggle that Protects like a Safety Glass

The new Bilsom Combil* offers the protection of a goggle, the impact resistance of a polycarbonate safety glass, the lightweight forehead protection of a polypropylene browguard and the comfortable secure fit of a wide strap with stylish good looks in one convenient unit. You can even flip-up the eye protection into the forehead housing unit when not required.

Combi's eye protection is also adjustable to press comfortably against your cheeks, without pressure. Your eyes are fully protected from all angles against chips, paints, sprays and other flying hazards. This tough polycarbonate protection meets or exceeds all impact and penetration tests of ANSI Z87.1-1979 standard.

The lightweight browguard is also ideal for employees working in confined spaces. The comfortable 1½" wide strap assures the entire unit will stay in place no matter what. Combi weighs only 6 ozs. and fits directly over most prescription eye glasses. Thousands of applications in construction and industry, such as grinding, assembly, maintenance, concrete cutting and use in laboratories.

Product No. 3436

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1-9 Units	\$17.95 each
10-19 Units	16,95 each

Welding Combi

Can be used for gas welding, assistants, students and others who occasionally need protection. Also great for chipping, and grinding with flip-up convenience for close-up inspection. Eye shield is shaded cellulose propyonate. Meets ANSI performance standard.

Product No. 3435

1-9 Units	\$21.00 each
10-19 Units	19.95 each

Replacement Lens

Easy snap-in/snap-out lens for above Combi protective units.

Product No. 3430 Clear Coated Lens ..\$3.50 each Product No. 3431 Clear Uncoated Lens \$2.05 each Product No. 3432 Shaded Lens\$4.75 each

Protective Film

Fits all Combi units. Adds life and value to lens. Product No. 3429 (Pouch of 5 films) . .\$ 3.10 pouch

Replacement Foam Pads

Replacement pad for Inside of brim **Product No. 3433** (Pkg. of 5 pads)\$ pack

BISOM 3-Way Pro Systems®

Complete all-in-one systems to give you hearing head and face protection to meet a variety of needs. See descriptions of shields and acreens below, caps on page 13; mutte on page 12-14.

Product No. 2610 HF-6 mulf, 4 pt. cap, polycarbonate visor...

\$33.55 each

Product No. 2611

HF-6 muff, 4 pt. cap, acetate visor \$32.85 each

Product No. 2600

HF-6 muff, 4 pt. cap, steel

screen \$29.95 each

Product No. 2601

Comfort muff, 6 pt. cap (with Pro System imprint), steel screen...... \$37.70 each

Product No. 2602

Viking mult, ratchet suspension cap with Pro System imprint, polyester ecreen . \$49.95 each



Face Shields

Works with Blisom Pro System or with other leading caps by use of Bilsom adaptor (page 14). This 8 x 13 x .04" clear shield gives you full tace protection. Easy snap-in replacement. Meets or

exceeds requirements of ANSI 287.1-1979. Completely dielectric

Product No. 3500-Visor Assembly Face Shield (No. 3581/3582) sold separately. Works with 3318 adaptor

1-9 Assemblies \$4.50 each

Product No. 3582—Acetate Face Shield

1-9 Shields \$4.25 each

Product No. 3581—Polycarbonate Face Shield 1-9 Shields \$4.75 each

SOM. Face Screens

Sturdy plastic construction for lightweight and durabillty. Screen can be placed in either "up" or "down" position. Full 6 x/11½ inches of protection. Perfect for chain naw or sawmill parsonnel, Works with 3318 adaptor.

Product No. 3410—Steel Mesh Product No. 3412—Polyester \$ 8.85 each

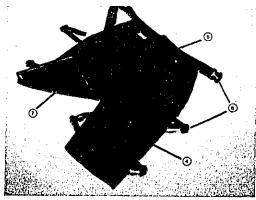
(Dielectric) \$10.10 each

Quantity prices available on all products. All prices quoted are auggested resale prices.









BIISOM Pro Leggins™

Two styles of top-quality leg protection to give you that extra few seconds to react to a chain saw type accident. Six layers of lightweight polyester literally "explode" when grabbed by a chain saw, giving you extra time to release the trigger and minimize any damage.

Highest safety rating (3350 ft/sec) by U.S. Forestry Service.

Pro Leggins™ Pants

- Full wrap-around protection

- 18" zipper for easy slip on/off design
 Easy-to-use "pinch" buckles
 Available in lightweight denim or rain-resistant cordura

Product No. 1600

Pro Leggins-Denim (S, M, L, XL sizes) . .\$62.85 pr.

Product No. 1601

Pro Leggins--Cordura (S, M, L, XL sizes) .\$71.70 pr.

Apron Style Chaps

- Available in lightweight denim or rain-resistant cordura
- Simplest on-off design
- Easy "pinch" buckles for secure fitOver 10" of protection width

Product No. 1610

Apron Chaps—Denim (M, L sizes)\$62.85 ea.

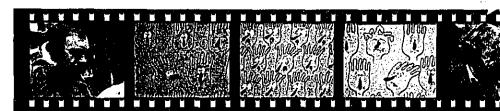
Product No. 1611

Apron Chaps—Cordura (M, L sizes) \$71.70 ea.

Caution: No leg protection product can guarantee to stop a chain saw and thereby eliminate the risk of injury. Leg protection is designed to give extra reaction time only. No extra protection is offered against slashing cuts such as a sharp knife or scissors, or against puncture wounds as from a nail.

Bilsom, Motive Mate

Motivational Materials



Audio-Visuals

Nice to Hear gives an excellent overview of hearing and noise protection to create a better understanding by employees. A brief discussion of the ear's anatomy, audiometric testing and protection methods are discussed.

S.O.S. offers an explanation of hearing cell damage and encourages employees to wear protectors on a full-time basis. Uses animated cell characters for demonstration of damage. Offers brief product wearing and maintenance instructions at end.

Both films are available in 16mm, slide cassette, and video tape for rent or purchase.

Posters/Signs

"Warning Signs" of bright yellow plastic to hang on wall. Meets OSHA requirements. 111/2 x 8"

"Handa" poster presents a rather dramatic warning to employees. Color, 181/2 x 113/4"

"Anatomy" poster gives an excellent reproduction of ear's anatomy. Great for teaching and display. "Screaming Ceil" poster shows relief for ringing in the ears.

"Excuses" commonly used by employees for not wearing hearing protectors are put into perspective.

Books/Handouts

In Detense of Hearing—for the medical and allied health professional. 20 pages, color Guidelines for Hearing Conservation Programs

—for safety and personnel managers. 20 pages, color

Danger of Evaluating Hearing Protectors on their Attenuation Alone—for the safety and purchasing manager. 16 pages, color

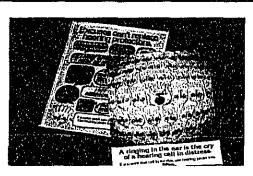
Some Practical Information on Noise and Hearing Protection—for safety managers and front line supervisors: 8 pages, color

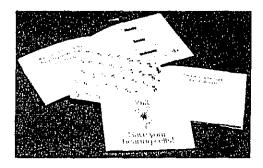
Save Your Hearing Ceils—simple review of S.O.S. film for employee. 20 pages, color Hear Now and How Much—simple but powerful

Contact Bilsom directly for ordering information

reminders for employees. Handout size.

for all education materials.







Attenuation Data for Bilsom Hearing Protection Products

Bilsom products have been tested in accordance with ANSI S.3.19-1974 standards by Dr. Paul Michael and Associates, Inc. Complete test results, including all positions for muffs, are available upon request. Listed below are two Noise Reduction Ratings (NRR). The first is the actual test results for the most commonly worn position. The second is the "worst" position test results as required by EPA for labeling.

The last column (usable % of NIOSH) represents the percentage of industrial noise situations, as selected by the National Institute of Occupational Safety and Health (NIOSH), that would be safety protected with the corresponding Bilsom product's "labeled" position NRR value. These percentages are presented for the A scale. (7 dB is subtracted from NRR value in accordance with OSHA regulations.)

	Frequency HZ	125	250	500	1000	2000	3000	4000	6000	8000	NRR as tested in most common position	EPA NRR as labeled	Usable % of NIOSH Noise Spectra A-scalo
Soft	Mean Value	22	25	: 29	34	37	45	: 46	- 41	38	26.0dB	26dB	94%
ear plugs	1, Std. Deviation	3.5	2.3	2.5	3.1	2.4	3.4	4.2	4.4	3.9			
Propp-O-Plast	Mean Value	23	25	26	26	34	39	41	41	38	22.1dB	22 dB	89%
ear plugs	1 Std. Deviation	3.6	2.8	2.5	3.0	3.0	2.2	2.8	3.2	3.6	1 EE. 1 UU	ZZUD	
Eardown*	Mean Value	:10	s, 13 .	16	20.	31	√36.	∜.37	38	34	15.9dB	15dB	65%
ear pluge	1 Std. Deviation	2.4	1.6	1.9	1.9	1.9	1.6	2.4	2,1	1.4	19.500	IOUL	. 00 %
Per-Fit*	Mean Value	29	29	30	32	37	43	40	39	35	26.0 dB	36413	94%
ear plugs	1 Std. Deviation	3.7	3.8	3.2	2.1	2.5	3.0	5.1	4.6	3.1	20.0UB	200D	94%
UF-2 Mulf	Mean Value	12	:15	25	35	37	39	37	37	34	22.0dB	dB 20dB	83%
elace mact	1 Std. Deviation	2.1	1.4	1.6	2.2	1.9	2.3	1,8	2.3	1,6			
UF-1 Muff	Mean Value	17	20	26	33	40	45	47	45	44	25.3 dB	23dB	89%
foam seals, optional strap	1 Std. Deviation	1.9	1.3	2.4	1.7	1.5	1.9	1.4	1.9	2.8			
UL-1 Mull	Mean Value	.15	ୁ 19	24	33	39	40	39	30	34	21.8dB	21dB	83%
liquid seals. optional strap	1 Std. Deviation	2.2	2.9	3.0	2.2	2.3	1.5	3.3	2.7	1,4			
Bilsom	Mean Value	17	21	24	36	38	41	42	39	36	24.8dB	23 dB	89%
Comfort Muff foam seals	1 Std. Deviation	2.1	1.9	2.0	1.8	1.8	2.4	1.6	2.5	1.9	24.0 UD		
	Mean Value	23	25	31	36	40	42	42	39	. 37	28.7dB	3 28dB	96%
Viking Mulf loam seals	1 Std. Deviation	2.2	2.0	1.9	2.2	2,0	2.3	3.2	3.2	3.0	20.7UD		
Bilsom	Mean Value	14	18	25	34	35	40	41	41	38	23.0dB 23d	23 dB	89%
Comfort Muff for Salety Cap	1 Std. Deviation	2.8	2.0	2.5	2.5	3.0	2.5	2.2	2.7	2.8	23.000	2000	
Viking Mulf for Salety Cap	Mean Value	15	21	27	37	36	38	42	42	39	25.0dB 25dB	25dB	92%
	1 Std. Deviation	1.0	2.0	2.5	2.8	1.5	2.3	3.0	3.7	3,6	20.000	E000 92	9£ /4
HF-6 Muff foam seals	Mean Value	15	16	21	30	35	39	40	35	35	22 04B	22.0dB 22dB 89	900/
	1 Std. Deviation	0.9	1.0	1.6	1.7	1.3	2.5	1.9	4.7	4.8	EE.VUD		03 /0
Compact Mulfi	Mean Value	10	12	19	24	33	35	39	40	38	17.04B	17dB	81%
	1 Std. Deviation	2.8	1.8	3.0	2.2	3.5	3.5	3.7	4.7	4.9	17.0dB 17dB		0170
Soft plug & Viking Muffs combined	Mean Value	25	34	45	45	41	51	51	49	46	33.0dB N.A.	97%	
	1 Std. Deviation	4.2	2.7	3.1	3.0	3.4	4.5	5.4	4.8	4.1	33.00D N.A.		

All Blicom products comply with OSHA, NIOSH, EPA and ANSI requirements and standards for their designated product group.



Blisom International, Inc. 11800 Sunrise Valley Drive Reston, VA 22091 703/620-3950

Plance have a Rileam convegantal	livo cali an ma ta diseusa tha					
Please have a Bilsom representat following new products:	tive call on me to discuss the					
☐ Vision™	☐ Pro-Leggins™					
☐ Combi [™] Eye Protection	☐ Compact Ear Muffs					
☐ Vision Face Shields/Screens	☐ Slotted Safety Caps					
Name:						
Title:	Phone:					
Company:						
Shipping Address:						
City: S	State: Zip:					
materials can help improve your exis greater understandi See page 18	ting program with ng and compliance.					
STOP!	unwanted copies of your					
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BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 4578 RESTON, VIRGINIA

POSTAGE WILL BE PAID BY ADDRESSEE



Bilsom International, Inc. 11800 Sunrise Valley Drive, Reston, VA 22091-5358. 703/620-3950

NO POSTAGE NECESSARY
IF MAILED
IN THE
UNITED STATES



Save Time, Save Money! Order economical hygiene kits with your purchase of muffs and save reordering time.

Replacing cushions and pads helps keep muff at peak performance and comfort levels, while giving extra life and more value to your Bilsom muffs. See opposite order form.



BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 4578 RESTON, VIRGINIA

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NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



Product Order Form

Name				
Tille		Phone		
Firm				
Address	·····			
City		State	Zıp	
P.O. #		Date		
	Product		Quantity	Τ
Product	+ *	Per Unit	Ordered	Total Co.
Vision Welding Hood	42460	44.60.00	 	
Throat Guard	#3460			
Filler Plates (Shade #)	"""	3.15 ea	- 4	1
Clear Panel Kit	#3468	4.85 ea		
Tinted Panel Kit	#3469	11.05 ea		
SOFT ear plugs		j		
Dispenser Refill (400 pair)	#5056			
(See Propportal #0004)	ļ	L		
1-9 Dispenser Refills	1	57.50 ea.	 	
Single Pair Dispenser (400 pair)	#5046		-	
1-9 Dispensers 10-29 Dispensers		62.25 oa	}	}
Five Pair Dispenser (400 pair)	#E026	52.00 ea.	 	ļ ——
1-9 Dispensors	#5036		 	
Proppomat Universal	#0004	62.25 oa	 	
(Works with SOFT #5056 P.O.P.	#0004	 	 	
#5521)	}			
1-9 Dispensers	 -	40 00 ea	1	
P.O.P ear plugs				
(See Proppomat #0004)				
Dispenser Refill (500 pair)	#5521			
1-4 Dispenser Rolills		72 00 ea		
Ten Pair Dispenser (500 pair)	#5026			
1-9 Dispensers	<u> </u>	77.75 ca.		
Per-Fit* with neckcord	#5603	(medium/l	arge)	
1-4 units of 40 pair	ļ	64.00 ca		
5-24 units of 40 pair		57.20 ea.		
	#5604	(small)	}	
1-4 units of 40 pair		64.00 ca. 57.20 ea.		
6-24 units of 40 pair Per-Fit* without neckcord	#5001			
	# 5601	(medium/k		
1-4 units of 40 pair 5-24 units of 40 pair		52.80 oa 48.80 ea	· ·	
о ст или и ти рак	#5602	(small)		
1-4 units of 40 pair	# 5002	52.80 ca	-	
5-24 units of 40 pair		48.80@a		
JF-2 Mulf	#2450			
-9 mulls	72430	8 60 ea		
0-59 muffs		8 20 ea		
UF-1 Malf	#2308			
1-9 mults		10 50 คล		
10-59 mults		10 00 ea		
JL-1 Mulf	#2301		_	
-9 mulls		12 80 pa		
Bilsom Comfort Muff	#2315			·
I-9 mulis		14.25ea.		
0-59 mulfs		13.50ea	*	
/lking Mults	#2318			
-9 muffs		19.65 ea.		
0-59 mults		18.65 ea.		
Compact Muff	#2470			
-9 mulls		11.75 ea	,	
0-59 mults		11.00 ea.	[]	

				
Product	Product	Price Per Unit	Quantity Orderug	Total Cost
Blisom Comfort Cap Muffs	#2313	1	1	7
1-9 pair	<u> </u>	16.15 ea	1	1
Viking Safety Cap Mutts	#2314	1	1	
1-9 pair		22,25 ea		1
Bilsom Safety Cap	#2604	·	1	
1-25 caps	 	4.30 ea		
Slotted Safety Cop Adaptors	- 	1	+	
for #2313/#2314/#2315 mulls	#3318	2.50 pr.		1
Universal Adaptor for #2313/#2314/#2454 mults	#3301	4.50 pr		
Screw-On Adaptor for #2313/#2314/#2454 muffs	#3310	1.50 pr.		
HF-6 Muff	#2454			
1-9 pair		14.05 ea		1
10-59 pair		13.20 oa]	
COOL Pads Dispenser Pack	#3451	28.00 ва		
Coolomat Dispenser	#0009	10.70 ea.		
Coolomat Refill (100 pair)	#3452	24.0068		
Hygiene Kits	 	j		
Hygiene Kits—Foam	#2310			
Kit	1	3.45 ea.	 	
Carton of 10 kits	1	30.50ea		
Hygiene Kits-Liquid	#2304			
Kit	1	4.00 ea.		
Carton of 10 kits		36.50ea		
Hygiene Kits—Foam	#2311			
Kil	_	4.60 ca.		
Carton of 10 kits		39.00 ca		
Combi Eye Protection—Clear	#3436	17.95 ca		-
Welding (Shaded)	#3435	21.00 ea.		
Replacement Films (5 pr.)	#3429	3.10 ea.		
Pro Systems				
HF-6/4 pt. cap/polycarbonate	#2610	33.55 ea.		
HF-6/4 pt. cap/acetale	#2611	32.85 oa		
HF-6/4 pt_cap/steet	#2600	29.95 ca.		
Comfort/6 pt_cap/steel	#2601	37.70 ea		
Viking/6 pt. cap/steet	#2602	49.95 ca.		
Face Shields				
Visor Assembly	#3500	4.50 ea.		
Acetale Shield	#3582	_4.25 ea.		.,
Polycarbonate Shield	#3581	4.75 ea.		
Face Screens				
Steel Mesh	#3410	B.85 ea.		
Polyester	#3412	10,10 ea.		
Pro Leggins's				
Leggins—Denim		62.85 pr.		
Leggins—Cordura		71.70 pr.	—— <u> </u>	
Apron—Denim		62.85 pr.		
Apron—Cordura	#1611	71.70 pr.		
	tal This			
		Numn #1		
	oping and			
	Total Thi	B Order		

All prices herein are suggested resale prices only. Local Bilsom distributors who will deliver and invoice this order may vary his prices from those listed. Please include prepayment for all orders less than \$50.00. Please include estimated shipping and handling charges. Minimum \$2.50. Send to: Bilsom International, Inc., 11800 Sunrise Valley Drive, Reston, VA 22091-5358, 703/620-3950, Telex: 82-4458



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Safety Solutions Catalog

New and Innovative Personal Protection Products to solve your safety needs.

- HEARING PROTECTION
- EYE PROTECTION
- HEAD PROTECTION
- FACE PROTECTION and NOW!
- WELDING HOODS
- LEG PROTECTION

SEE INSIDE FOR DETAILS





Ant Hyz Wanghi Wi ZZOZEPA/ONATECH 6 INTDI