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

NEW VISION™ WELDING HOOD

NEW LEG PROTECTION/IMPROVED EYE PROTECTION

Bilsom® Don't settle for a standard protector, when you can have a Bilsom.
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™ 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 break tradition with our new Vision™ 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 Leggins™ 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,

BILSOM INTERNATIONAL, INC.

Roland Westenboer
President

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
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: 15.5 ozs.
- Helmet: Crack resistant nylon
- Panel: 3 layers heat resistant polycarbonate plus laminated reflective foil
- Filters: Optical quality plexiglass
- Viewing Area: Front—6 x 9"
  Filter—4 1/4 x 2 3/8"
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.
3. Increased UV and impact protection from 3 layers of polycarbonate.
4. Additional IR protection from aluminum foil reflecting 80% of light.
5. Unit weighs less than 1 lb.
6. Personal adjustments on headgear.

Product No. 3460
Complete Vision Hood with headgear and filter plate for Shade 10 equivalency
1-9 units ............................................ $41.60 each
10-19 units .......................................... 40.35 each
20 or more units .................................... 39.55 each

Product No. 3471
Optional throat guard with velcro strap
1-9 guards ........................................... $ 9.40 each
10-19 guards ......................................... 9.10 each
20 or more guards ................................... 8.55 each

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 ....................................... $3.15 each
10-19 filter plates .................................... 3.05 each
20 or more filter plates ................................ 2.95 each

Product No. 3470
Replacement nylon headgear with ratchet adjustment
1-9 headgears ....................................... $ 7.50 each
10-19 headgears ..................................... 7.30 each
20 or more headgears ............................... 7.10 each

Replacement Polycarbonate Front Panels and Pipes
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 welding
1-9 units ............................................. $11.05 each
10-19 units ......................................... 10.70 each
20 or more units .................................... 10.45 each

All prices quoted are suggested resale prices.
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 it off, we have added a thin foam lid to hold it all in place (figure 3).

Improved Consumer Benefits
- Easier fitting from resiliency of foam
- 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 Refill—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.
10-29 Dispenser Refills ...................... 44.75 ea.
30 or more Dispenser Refills ............. 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
1-9 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.

All prices quoted are suggested resale prices.
The Most Hygienic Plug Available.
These comfortable ear plugs can be worn almost un-noticed 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 Propomat 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 ........................................ 58.25 each
30 or more Refills ................................ 47.75 each

Product No. 0004
Wall-Mounted Universal Dispenser
1-9 Dispensers................................. $40.00 each
10 or more Dispensers....................... 38.50 each

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............................... 84.50 each
30 or more Dispensers...................... 59.25 each
Wall Shelf for No. 5026
Product No. 0006............................... $ 4.50 each

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).
All prices quoted are suggested resale prices.
Improved, softer silicone
Per-Fit has been reformulated with a softer silicone formula for even more comfort than ever before. This softer silicone 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 non-allergenic 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)
Product No. 5603—Medium/Large (blue)
1-4 units of 40 pair.......................... $ 64.00 each
5-24 units of 40 pair.......................... 57.20 each
25-49 units of 40 pair.......................... 45.20 each

Per-Fit without Safety Cord
For most industrial situations.
Product No. 5602—Small (green)
Product No. 5601—Medium/Large (blue)
1-4 units of 40 pair.......................... $ 52.80 each
5-24 units of 40 pair.......................... 48.80 each
25-49 units of 40 pair.......................... 38.40 each
Larger quantities quoted upon request.

NRR = 26 as tested

All prices quoted are suggested resale prices.
What can we learn from NIOSH's Sample of 100 Industrial Noise Spectra?

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

1. A full 90% of the noise spectra falls below 105 dB(A).
2. 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.
3. 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.
4. 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.
5. We can conclude that the vast majority of industrial noise environments do not need NRR values of 25-30 dB.

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 undesirable 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 S3.19-1974. 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.
Universal Muffs

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 dielectric.

Both feature soft, supple foam-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 all-day 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 Muffs ........................................ $ 8.60 each
10-59 Muffs ...................................... 8.20 each
60 or more Muffs ............................... 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. 2306 (UF-1)
1-9 Muffs ........................................ $10.50 each
10-59 Muffs ...................................... 10.00 each
60 or more Muffs ............................... 9.35 each

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.
Bilsom  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 muff 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

All prices quoted are suggested resale prices.
Bilsom 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 ensure 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. 2310 (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 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.
Bilsom® 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 $ 39.50 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.

Product No. 2311 (Foam) ..................... $ 4.60 each
Carton of 10 Kits .................................... 39.00 each

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 resealable 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 Pair) .................. $ 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.

Coolomat Dispenser
Product No. 0008.................................... $ 10.70 each

Coolomat Dispenser Refill
Product No. 3452
1-9 Refills (100 pair).......................... $ 24.00 each
10 or more Refills............................... 21.00 each

All prices quoted are suggested resale prices.
Bilsom Helmet Muff

Lightweight and Economical

The Bilsom HF-6 is a sturdy, extremely lightweight (6.2 ozs) muff that allows you the same personal comfort and versatility of the Bilsom Comfort and Viking muffs 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)

<table>
<thead>
<tr>
<th>Quantity</th>
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<tbody>
<tr>
<td>1-5 Muffs</td>
<td>$14.05 each</td>
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<td>10-59 Muffs</td>
<td>$13.20 each</td>
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<tr>
<td>60 or more Muffs</td>
<td>$12.25 each</td>
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</table>

Adaptor required, see page 14.

NRR = 22 as tested

Bilsom 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 muffs won’t fit.

Uses Hygiene kit No. 2310

Product No. 2470

<table>
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<th>Quantity</th>
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<tbody>
<tr>
<td>1-9 Muffs</td>
<td>$11.75 each</td>
</tr>
<tr>
<td>10-58 Muffs</td>
<td>$11.00 each</td>
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<tr>
<td>60 or more Muffs</td>
<td>$10.40 each</td>
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</tbody>
</table>

All prices quoted are suggested resale prices.
**Bilsom 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 6.1 ozs. 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.

**Bilsom 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 (C), 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. 2804 (Color Code)**
1-25 Caps .................................. $4.30 each
26-199 Caps .................................. 4.05 each
200 or more Caps .......................... 3.50 each

All prices quoted are suggested resale prices.
**Bilsom Viking Muff for Safety Caps**

For Extra Protection

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

Viking cap muff 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 muffs, see page 16.

**Product No. 2314 (SHF-30)**

<table>
<thead>
<tr>
<th>1-9 muffs</th>
<th>62.25 each</th>
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</thead>
<tbody>
<tr>
<td>10-50 muffs</td>
<td>21.10 each</td>
</tr>
<tr>
<td>50 or more muffs</td>
<td>19.55 each</td>
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</tbody>
</table>

Adapter required, see below.

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**Bilsom Slotted Cap Adaptor**

Now you can mount all major slotted safety caps. Just slip over, attach the Bilsom or other leading manufacturer's slotted head protection system. All types, all sizes, all brands. Face shield and screen or other face protection can be used with Bilsom caps. Adapter required.

**Product No. 319**

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**Bilsom Universal Cap Adaptor**

Universal cap adaptor converts all caps to fit the Bilsom Comfort cap. Wires formed into a special ring. Weight 6.5 oz.

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**Bilsom Screw-On Adaptor**

Bilsom adaptor eliminates the use of adapters, giving you maximum comfort and protection. All types of caps, including slotted, height adjustable, etc.
The Bilsom Vision Comb™

The Safety Goggle that Protects like a Safety Glass

The new Bilsom Comb™ offers the protection of a goggle, the impact resistance of a polycarbonate safety glass, the lightweight forehead projection 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.

Comb’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 1/4” wide strap assures the entire unit will stay in place no matter what. Comb 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 Comb
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 propyronato. 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 Comb 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 Comb 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

All prices quoted are suggested resale prices.
**Bilsom 3-Way Pro Systems®**

Complete all three systems to give you hearing, head and face protection to meet a variety of needs. See descriptions of shields and screens below, caps on page 19, muffs on page 12-14.

**Product No. 2610**
- HF-6 muff, 4 pt. cap, polycarbonate visor: $33.95 each

**Product No. 2611**
- HF-6 muff, 4 pt. cap, acetate visor: $32.85 each

**Product No. 2800**
- 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 muff, ratchet suspension cap (with Pro System imprint, polyester screen): $46.95 each

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**Bilsom Face Shields**

Works with Bilsom Pro System or with other leading caps by use of Bilsom adaptor (page 14). This 6 x 13 x .04" clear shield gives you full face protection. Easy snap-in replacement. Meets or exceeds requirements of ANSI Z87.1-1979. Completely dielectric.

**Product No. 3500—Visor Assembly**
- Face Shield (No. 3581/3582) sold separately.
  - Works with 3319 adaptor
  - 1-8 Assemblies: $4.50 each

**Product No. 3582—Acetate Face Shield**
- 1-9 Shields: $4.25 each

**Product No. 3591—Polycarbonate Face Shield**
- 1-9 Shields: $4.75 each

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**Bilsom Face Screens**

Sturdy plastic construction for lightweight and durability. Screen can be placed in either "up" or "down" position. Full 6 x 11 1/4 inches of protection. Perfect for chainsaw or sawmill personnel. Works with 3319 adaptor.

**Product No. 3410—Steel Mesh**
- $8.85 each

**Product No. 3412—Polyester (Dielectric)**
- $10.10 each

Quantity prices available on all products. All prices quoted are suggested resale prices.
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 fit
- Over 10" of protection width

Product No. 1810
Apron Chaps—Denim (M, L sizes) . . . . . $62.85 ea.

Product No. 1811
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.

All prices quoted are suggested resale prices.
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. 11 1/2 x 8”
“Hands” poster presents a rather dramatic warning to employees. Color, 16 1/2 x 11 1/4”
“Anatomy” poster gives an excellent reproduction of ear’s anatomy. Great for teaching and display.
“Screaming Cell” 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 Defense 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 Cells—simple review of S.O.S. film for employee. 20 pages, color
Hear Now and How Much—simple but powerful reminders for employees. Handout size.

Contact Bilsom directly for ordering information for all education materials.
# Attenuation Data for Bilsom Hearing Protection Products

Bilsom products have been tested in accordance with ANSI S3.19-1974 standards by Dr. Paul Michael and Associates, Inc. Complete test results, including all positions for muffls, 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 safely 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.)

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</tbody>
</table>

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

Bilsom International, Inc.
11800 Sunrise Valley Drive
Reston, VA 20091
703/620-3950

[footnotes]

- NRR: Noise Reduction Rating
- NRR as tested: In most common position
- NRR as labeled: In worst position
- Usable % of NIOSH Noise Spectra A-scale
Please have a Bilsom representative call on me to discuss the following new products:

- Vision™
- Combi™ Eye Protection
- Vision Face Shields/Screens
- Pro-Leggins™
- Compact Ear Muffs
- Slotted Safety Caps

Name: ____________________________________________
Title: _______________________ Phone: ________________
Company: __________________________________________
Shipping Address: ____________________________________
City: __________________________ State: __________ Zip: __________

Employee education has proven to be a major part of successful hearing conservation programs. Bilsom’s audio-visuals, booklets, posters and other materials can help you get started or improve your existing program with greater understanding and compliance.

See page 18 for details.

STOP! STOP! STOP!
I’m receiving duplicate or unwanted copies of your catalog. Please delete or change the information below.

OLD ADDRESS (USE LABEL ON WRAP)
(TAPE LABEL HERE)

NAME: ___________________________ TITLE: ________________
COMPANY: ____________________________________________
ADDRESS: ____________________________________________
CITY: ___________________________ STATE: __________ ZIP: __________
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.
# Product Order Form

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<th>Product</th>
<th>Product #</th>
<th>Price Per Unit</th>
<th>Quantity Ordered</th>
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### Pro Systems

- HIF-6/4 pt. cap/polycarb.) | #2610 | 31.65 ea | | |
- HIF-6/4 pt. cap/acetate | #2611 | 32.66 ea | | |
- HIF-6/4 pt. cap/acetate | #2600 | 29.95 ea | | |
- Comfort/pt. cap/polycarb. | #2601 | 37.70 ea | | |
- Viking/pt. cap/acetate | #2602 | 49.55 ea | | |

### Face Shields

- Viter Assembly | #3500 | 4.50 ea | | |
- Ablution Shield | #3502 | 4.25 ea | | |
- Polycarbonate Shield | #3501 | 4.75 ea | | |

### Face Screens

- Steel mesh | #3410 | 8.85 ea | | |
- Polyester | #3412 | 13.10 ea | | |

### Pro Leggings

- Leggings—Denim | #1600 | 52.65 pt | | |
- Leggings—Cordura | #1601 | 71.70 pt | | |
- Apron—Denim | #1610 | 62.65 pt | | |
- Apron—Cordura | #1611 | 71.70 pt | | |

**Total This Column**

**Total This Order**

**Total Column #1**

**Shipping and Handling**

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., 11000 Sunrise Valley Drive, Reston, VA 22091-2306, 703/620-3950, Telex: 82-4485
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