

PROTECTING YOUR HEARING!



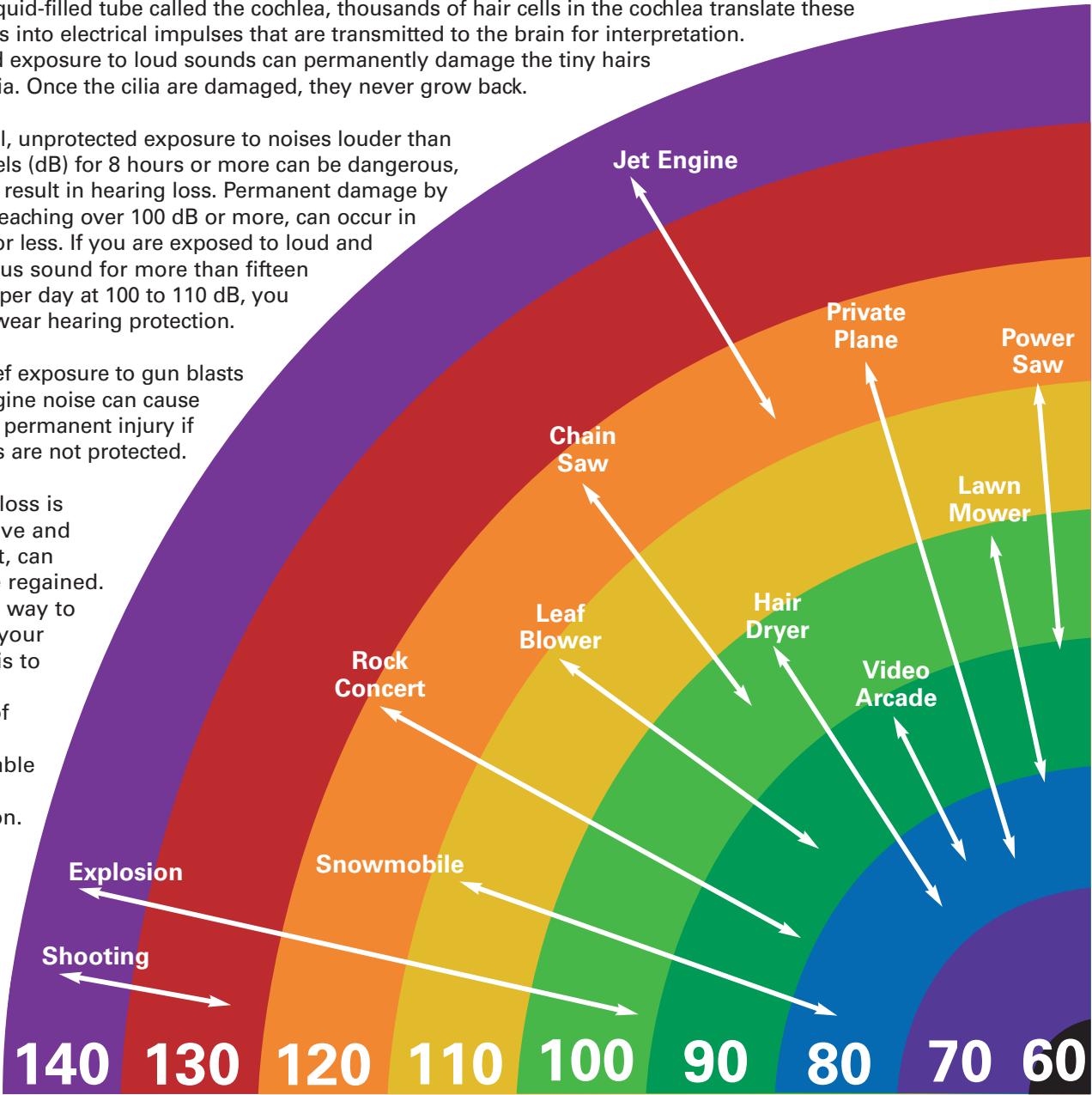
Your Simple Guide to Hearing Protection

As sound enters the outer ear, it is channeled down the ear canal until it reaches the ear drum. The ear drum, a thin membrane stretched over a tube, is moved by the sound waves. When the sound vibrations reach the coiled, liquid-filled tube called the cochlea, thousands of hair cells in the cochlea translate these vibrations into electrical impulses that are transmitted to the brain for interpretation. Repeated exposure to loud sounds can permanently damage the tiny hairs called cilia. Once the cilia are damaged, they never grow back.

Continual, unprotected exposure to noises louder than 85 decibels (dB) for 8 hours or more can be dangerous, and may result in hearing loss. Permanent damage by sounds reaching over 100 dB or more, can occur in 2 hours or less. If you are exposed to loud and continuous sound for more than fifteen minutes per day at 100 to 110 dB, you need to wear hearing protection.

Even brief exposure to gun blasts or jet engine noise can cause pain and permanent injury if your ears are not protected.

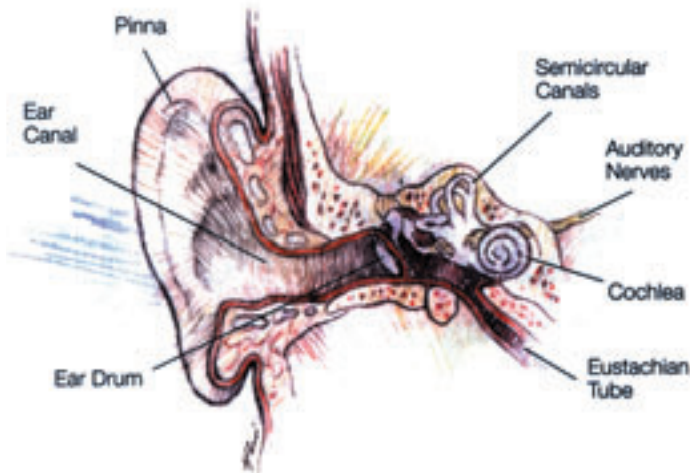
Hearing loss is cumulative and once lost, can never be regained. The best way to protect your hearing is to create a habit of wearing comfortable hearing protection.



Hearing Protection

How do we go about protecting our hearing?
Here are some recommendations for hearing protection,
whether you are a worker, safety director, purchaser
or just someone who knows it is necessary.

- 1 Know your hazard.** Whenever possible, measure the noise levels in your environment on a frequent basis to determine exactly what the hazards are, and have an understanding in what frequency ranges the majority of the noise occurs.
- 2 Trust the annual audiogram.** Rely on this information to gauge your hearing loss from year to year. Is your hearing deteriorating? Is it due to noise induced losses from the workplace, or simply the facts of aging?
- 3 Select hearing protection that is right for you,** that is comfortable to you, and that you will wear.
- 4 Wear your hearing protection right.** Each type of hearing protector is slightly different. The important thing to remember is that you need to insert ear plugs correctly, or ear muffs completely over the ears. Then, you must always test the fit.
- 5 Test the fit** by cupping your hands over your ears, then release. If you can hear a difference, you may not be wearing your hearing protector correctly. Remove, then fit again. Following these simple guidelines, you can save your hearing from further hazardous exposure and potential hearing loss.



Several types of ear
plugs created by



with two major features: superior performance (measured as high Noise Reduction Ratings, or NRR) and most importantly, comfort for the wearer.

IT'S ALL ABOUT CHOICE WHEN SELECTING EAR PLUGS

Selecting the right protection for your workers means more than choosing the earplug with the highest NRR. A better way to ensure that hearing protection is used consistently and properly is to select earplugs by Comfort Profile. That means considering all the features that make one earplug work and fit differently than another: material, shape, size and NRR. Howard Leight makes it easy to compare products and ensure that all your workers receive the right fit and protection.

SHAPE

Because every ear is different, earplugs are available in a range of shapes.



FLANGE
Distributes pressure evenly on the ear canal to deliver unmatched comfort and superior attenuation



BELL
Flared shape provides superior attenuation



T
Contoured for easy insertion and comfortable long-term wear



PILL
Two sizes in one provides more fit options with a single product



CYLINDER
Contoured to fit the shape of the ear canal



FLAT ARROW
Fits easily inside the ear canal opening and provides excellent protection



OVAL PAD
Fits just outside the opening of the ear canal for wearer comfort

MATERIAL

Foam: Low and medium pressure foam. Self adjusts for a comfortable fit.

Moulded: Soft and pliable. Ideal for long-wearing or multiple-use applications.

NOISE REDUCTION RATING (NRR)

This rating system established by the EPA lets you compare the level of protection offered by various product. Use NRR, along with comfort features, to determine what product works best in your situation.

MULTI-MAX® MULTI-SIZED FOAM



MULTI-SIZED MEANS ECONOMY, FLEXIBILITY & COMFORT!

Multi-Max® (NRR 31) is a uniquely designed two-sizes-in-one ear plug. You have the choice of which tip fits and works best and is most comfortable for you. It combines high ratings with convenient size flexibility. Two-sizes-in-one makes inventory control easy. *Multi-Max*® has our trademark smooth, soil-resistant skin and attenuation effectiveness. Attenuation tested in accordance with ANSI S12.6-1984. High-visibility coral and yellow colours, packed in poly or paper bags, 200 uncorded pairs per box.

RATINGS: NRR 31, SNR 35_{CE}, SLC₉₀ 26.0 CSA A(L).



SM557



SM556

Order No.	Mfg. No.	Description	Qty /Box
SM556	MM-1	Uncorded, Poly Bag	200 prs.
SM557	MM-1-PB	Uncorded, Paper Bag	200 prs.

MAX-LITE® LOW PRESSURE FOAM

**IDEAL FOR LONG-TERM USERS
& THOSE W/SMALLER EAR CANALS!**

Max-Lite® (NRR 30) low pressure foam ear plugs offer long-term user comfort not found in other preshaped foam ear plugs. The non-irritating, non-allergenic self adjusting foam recovers to fit virtually any ear canal. *Max-Lite*® is also ideal for that portion of the population with smaller ear canals. Attenuation tested in accordance with ANSI S3.19-1974. Green colour, packed in poly or paper bags.

RATINGS: NRR 30 SNR 34_{CE}, SLC₉₀ (corded) 27.5, SLC₉₀ (uncorded) 27.0 CSA A(L).



Order No.	Mfg. No.	Description	Qty /Box
SM558	LPF-1	Uncorded, Poly Bag	200 prs.
SM559	LPF-30	Poly Cord, Poly Bag	100 prs.
SM560	LPF-30-PB	Poly Cord, Paper Bag	100 prs.
SM561	LPF-30-P	White Cotton Cord, Biodegradable-Repulpable Paper Bag	100 prs.

LASER-LITE® MULTI-COLOUR FOAM

THE HOT LOOK IN COMFORTABLE HEARING PROTECTION!

Laser-Lite® (NRR 32) is the multi-colour ear plug that workers love to use. The non-irritating, non-allergenic self-adjusting foam recovers to fit virtually any ear canal. *Laser-Lite*® is ideal for that portion of the population with smaller ear canals. Attenuation tested in accordance with ANSI S3.19-1974. Magenta-Yellow colour. Packed in poly bags.

RATINGS: NRR 32, SNR 35_{CE}, SLC₉₀ (corded) 27.5, SLC₉₀ (uncorded) 27.0 CSA A(L)



SM563



SM562



Order No.	Mfg. No.	Description	Qty /Box
SM562	LL-1	Uncorded, Poly Bag	200 prs.
SM563	LL-30	Corded, Poly Bag	100 prs.

MAX® FOAM

Preshaped foam ear plugs feature a smooth outer skin for maximum user comfort. The smooth, soil resistant skin helps prevent foreign material from penetrating the surface while rolling prior to insertion. Attenuation tested in accordance with ANSI 53.19-1974. Noise reduction rating NRR 33dB, SNR 34dB. Packed in poly bags, 200 uncorded pairs per box, 100 corded pairs per box.

Colour: Orange



SD630



Order No.	Mfg. No.	Description	Qty /Box
SD630	MAX-1	Uncorded	200 prs.
SD631	MAX-30	Corded	100 prs.

Ear Plugs

MATRIX™



- Patented no roll design makes insertion easy
- Smooth outer skin and reduced diameter provide long-term comfort
- Delivers instant protection - no need to wait for foam to expand
- Screens harmful noise out, but lets voice pass through
- Three attenuation levels
- Orange, NRR 29/SLC80 17.5 Class 2/SNR 29/CSA A (L)
- Green, NRR 27/SLC80 16.8 Class 2/SNR 27/CSA A (L)
- Blue, NRR 23/SLC80 19.0 Class 3/SNR 27/CSA A (L)



Order No.	Mfg. No.	Description	Qty /Box
SAK057	MTX-1-OR	Uncorded	200 prs.
SAK334	MTX-30-OR	Corded	100 prs.
SAK332	MTX-1-GR	Uncorded	200 prs.
SAK335	MTX-30-GR	Corded	100 prs.
SAK333	MTX-1-BU	Uncorded	200 prs.
SAK336	MTX-30-BU	Corded	100 prs.

AIR SOFT™

Reusable ear plugs with a patented cushion of air for superior comfort. Features a shell of soft attenuating material around a pocket of air that is comfortable enough for extended wear. Washes with soap and water for months of protection. The highest rated reusable ear plug. Attenuation tested in accordance with ANSI S3.19-1974. Noise reduction rating NRR 27 dB, SNR 30 dB. Available with or without cord in clear flip-top boxes or packed 50 pairs per dispenser box.

One size fits all.
Colour: Blue



Order No.	Mfg. No.	Description	Qty/Box
CLEAR BOXES			
SD582	DPAS-1	Uncorded	100 prs.
SD583	DPAS-30R	Corded, Red Vinyl	100 prs.
SD584	DPAS-30W	Corded, White Nylon	100 prs.
DISPENSER BOX			
SD585	AS-1	Uncorded	50 prs.
SD586	AS-30R	Corded, Red Vinyl	50 prs.
SD587	AS-30W	Corded, White Nylon	50 prs.

EAR PLUG DISPENSER



Order No.	Description
SAO205	LS-400 Leight® Source Ear Plug Dispenser

BULK REFILLS, SINGLE USE EAR PLUGS

Order No.	Description	Pairs /Refill	NRR db	Qty /Case
SAO206	Matrix™ Orange No-Roll	200	29	10
SAO207	Matrix™ Green No-Roll	200	27	10
SAO208	Matrix™ Blue No-Roll	200	23	10
SAO209	Max®	200	33	10
SAO210	Max Lite®	200	30	10
SAO211	Laser Lite®	200	32	10
SAO212	MultiMax®	200	31	10



Classic® FOAM

Slow recovery PVC foam provides comfort with low pressure. It is moisture resistant, and foam will maintain its comfort, fit and critical recovery characteristics. Shape equalizes pressure throughout the ear canal as it expands. Flame retardant and dermatologically safe foam is not irritating. The **Classic® Plus** offers the highest NRR, 33 dB. It has a longer high performance foam plug for increased protection, fits more deeply into the ear canal. The **Classic® Small** has a more narrow design for smaller ear canals. Also available in the **Classic® Plus Metal Detectable** foam ear plugs. Both the cord and the plugs are metal detectable. All models available uncorded pillow pak or corded in poly bag. **Model SH106** is packaged in environmentally friendly paper pak, vegetable based in ink and glue. One size fits all. Colour: Yellow. 200 pairs per box.



Order No.	Mfg. No.	Description	NRR dB
UNCORDED			
SA681	310-1001	Foam - Pillow	29
SH106	313-5555	Foam - Paper Pak	29
SH107	310-1101	Plus Foam	33
SH109	310-1103	Small Foam	29
SAJ486	312-1201	Polybag	29
CORDED			
SE649	311-1101	Foam	29
SH108	311-1105	Plus Foam	33
SH110	311-1106	Small Foam	29

DECIDAMP²™

Decidamp²™ foam ear plugs, both corded and uncorded, are designed to provide maximum comfort. Foam is of non-toxic and non-irritating PVC. Corded model can hang comfortably around the neck for convenience. Colour: White. Tested in accordance with ANSI S3.19-1974. NRR 29 dB.



Order No.	Mfg. No.	Description	Qty /Box
SA666	280005	Uncorded	200 prs.
ZB546	280006	Corded	100 prs.

COM-FIT[®] WITH INSERTER DEVICE

Reusable insert-type hearing protectors. Made from silicone rubber, Com-fit[®] ear plugs feature a triple-flange design which provides multi-surface sealing over a wider range of ear canal sizes. Colour coded in three sizes. Conveniently stored in carrying case and chain.

Attenuation tested in accordance with ANSI S3.19-1974, NRR 26 dB. 20 pairs/box. Sold per pair.



Order No.	Mfg. No.	Description	Size	Colour
SA668	281401	Uncorded	Small	Green
SA670	281411	Corded	Small	Green
SE927	281413	Corded	Medium	Orange
SA671	281415	Corded	Large	Blue

QUIET[®]

- Patented "no-roll" design is easy to handle and fit
- Contoured shape comfortably matches contours of the ear
- Built-in insertion stem
- NRR 26 dB
- CSA Class A(L)



Order No.	Mfg. No.	Description	Qty /Box
SAK351	QD1	Uncorded, Flip top box	100 prs.
SE359	QD30	Poly cord, Flip top box	100 prs.

SMARTFIT[™]

- Advanced material uses body heat to adapt to the individual shape of each wearer's ear canal
- Fits almost every wearer
- HearPack[™] storage case
- Unique detachable cord
- NRR 25 dB
- CSA Class A(L)



Order No.	Mfg. No.	Description	Qty /Box
SAK348	SMF-30	Corded	100 prs.

FUSION[™]

- FlexiFirm[™] core for easy handling
- SoftFlange[™] design for comfort and fit
- Unique detachable cord system
- NRR 27 dB
- CSA Class A(L)

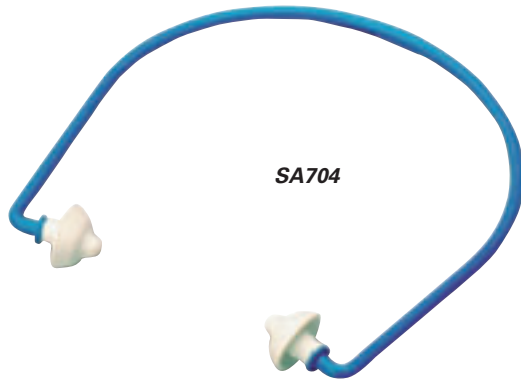


Order No.	Mfg. No.	Description	Qty /Box
SAK349	FUS30-HP	Regular, HearPack [™]	100 prs.
SAK350	FUS30S-HP	Small, HearPack [™]	100 prs.

Ear Plugs

DECI4300™ BAND

Lightweight under-the-chin earband is easy to use since it does not require insertion in the ear canal. Soft caps fit over the ear canal entrance to block out harmful noise. NRR 16 dB. Packaged in reusable zip-lock poly bags.



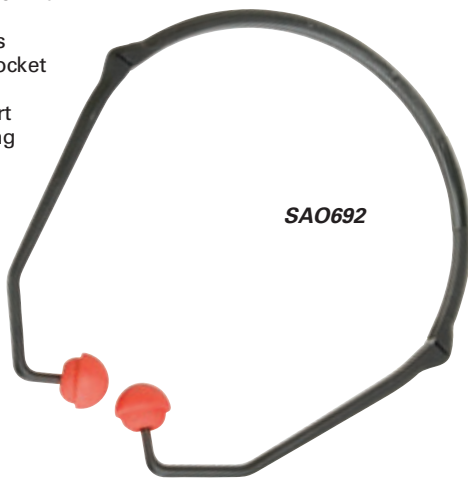
SA704

NORTH

Order No.	Mfg. No.	Description
SA704	284300	Ear Band
SAF945	284320	Replacement Pods 10/Pkg.

PERCAP® FOLDABLE 3-POSITION BANDED EARPLUGS

- Super soft pods rest outside the ear canal opening
- Ideal for workers who do not like to put earplugs in their ears
- Wear over the head, under the chin or behind the neck
- Compact, fits easily in a pocket
- Comfortable for both short term and long term wear
- NRR 21 dB



SAO692

HOWARD LEIGHT
by SPERIAN

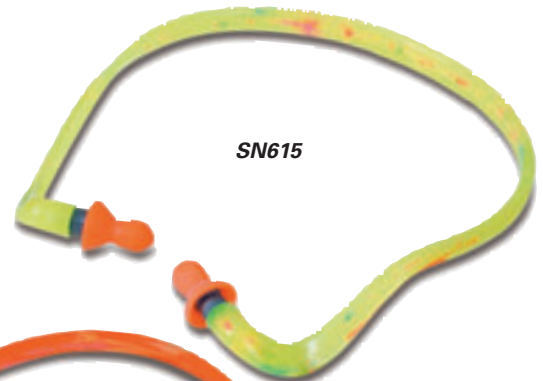
Order No.	Mfg. No.	Qty /Box
SAO692	PERCAP	10
SAO744	PCAP100	50

QUIET BANDS

Ergonomic design keeps the pads suspended so they don't become contaminated when you set the *Quiet Bands* down. Available in three different plug styles:

- QB1® Hyg inner-aural protection has the highest NRR of 27 dB
- QB2® Hyg supra-aural protection has a NRR 25 dB rating
- QB3® Hyg semi-aural which is designed for moderate or intermittent hearing protection has a NRR 23 dB rating

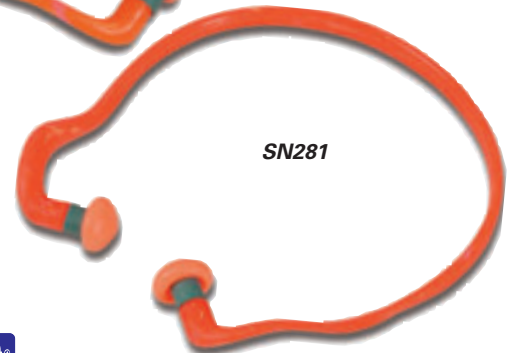
Replacement pads for all three *Quiet Band* products allow you to economically replace the ear plugs while reusing the headband.



SN615



SN616



SN281

HOWARD LEIGHT
by SPERIAN

One free pair of replacement pads included with each *Quiet Band*.

Order No.	Mfg. No.	Description
SN615	QB1HYG	QB1® HYG Inner-Aural, 27 dB
SN616	QB2HYG	QB2® HYG Supra-Aural, 25 dB
SN281	QB3HYG	QB3® HYG Semi-Aural, 23 dB

REPLACEMENT PADS

SN617	QB100HYG	QB1® HYG, 1 pair/pkg.
SN618	QB200HYG	QB2® HYG, 1 pair/pkg.
SN279	QB300HYG	QB3® HYG, 1 pair/pkg.

THUNDER®

- Non-deforming comfort headband fits all head sizes
- Ventilated inner headband and soft pads for maximum comfort
- Quick-Click height adjustments
- Dielectric design safe for electrical environments



Order No.	Mfg. No.	Description	NRR dB
SAK150	1010928	T1, Over-head headband	26
SAK151	1010929	T2, Over-head headband	28
SAK152	1010930	T3, Over-head headband	30
SAO694	1011601	T1H, Cap Mount	23
SAK443	1010974	Hygiene kit for T1	
SAK444	1010975	Hygiene kit for T2	
SAK445	1010976	Hygiene kit for T3	

LEIGHTNING®

- Maximum protection from an earmuff
- Robust steel headband withstands demanding use
- Padded foam headband and super-soft ear cushions deliver longwearing comfort
- Contemporary design improves wearer compliance
- Telescoping height adjustment



Order No.	Mfg. No.	Description	NRR dB
SAK147	1010922	L1, Over-head headband	25
SAK148	1010923	L2, Over-head headband	27
SAK149	1010924	L3, Over-head headband	30
SAK446	1010971	Hygiene kit for L1	
SAK447	1010972	Hygiene kit for L2	
SAK448	1010973	Hygiene kit for L3	

VIKING®

AMPLIFY THE SOUNDS YOU WANT TO HEAR, WHILE PROTECTING YOUR EARS!

- Three position headband offers more wearing options and works with helmets, shields and other equipment
- Super soft ear cushions deliver longwearing comfort
- Dielectric design safe for electrical environments
- Headband straps for multiple-position wear



Order No.	Mfg. No.	Description	NRR dB
SAK153	1010925	V1, Multi-position headband	23
SAK154	1010926	V2, Multi-position headband	25
SAK155	1010927	V3, Multi-position headband	29
SAK449	1006018	Hygiene kit for V1	
SAK450	1010977	Hygiene kit for V2	
SAK451	1010978	Hygiene kit for V3	

CLARITY™

- Patented technology offers sophisticated filtering without electronics
- Blocks noise but helps wearers hear co-workers' speech, warning sounds and alarms
- Improves safety in environments where overprotection is a danger
- Ventilated headband and ear cushions deliver longwearing comfort
- Dielectric design safe for electrical environments



Order No.	Mfg. No.	Description	NRR dB
SAK157	1011142	C1, Over-head headband	20
SAK158	1011145	C2, Multi-position headband	23
SAK159	1011146	C3, Over-head headband	27
SAK452	1006080	Hygiene kit for C1	
SAK453	1006017	Hygiene kit for C2	
SAK454	1006081	Hygiene kit for C3	

Ear Muffs

LEIGHTNING HI-VISIBILITY®

- Fluorescent green earcups provide additional visibility and contrast on the job
- Air Flow Control™ technology provides better attenuation, especially at low frequencies
- Robust design withstands demanding use, especially in tough environments
- Ideal for roadway construction, utility workers, survey engineers, ferry service operators, emergency response workers, railroad workers, and many others



Order No.	Mfg. No.	Description	NRR dB
SAO691	1015020	Cap-Mount	23
SAO695	1013941	Over-Head	30
SAO696	1013942	Foldable	27

LEIGHTNING® ULTRASLIM

- Easy storage when not in use
- Extremely lightweight design rests comfortably on the head
- Lower attenuation provides reliable protection against marginal noise or intermittent exposure
- Makes cushion replacement quick and easy
- Provides better fitting on top of the head for optimal attenuation
- Robust design withstands demanding use, especially in tough environments



Order No.	Mfg. No.	Description	NRR dB
SAO690	1013460	Lo ⁿ Neckband	22
SAO697	1013461	Lo ^f Foldable	23

IMPACT™

- Directional stereo microphones amplify and enhance sound for more natural hearing
- Ideal for hearing impaired workers
- Limits sound to 82 dB
- 700-hour battery life, automatic shutoff and Aux signal input
- Easy access battery compartment



Order No.	Mfg. No.	Description	NRR dB
SAK160	1010376	V1, Over-Head Headband	23
SAK161	1010632	Cap Mount	21
SAK455	1008000	Hygiene Kit for Impact™	-

MACH 1™

- Economical choice for basic hearing protection
- Adjusts to fit any head size
- Dielectric, super lightweight construction

Order No. SAK156
Mfg. No. 1010421

HOWARD LEIGHT by SPERIAN



SABRE, CSA CLASS A

Wide soft sealing cushions are extremely comfortable and provide exceptional performance. Unique cup design allows easy adjustment. Durable plastic construction stands up to the roughest conditions. Colour: Black/Red.

NORTH

SA683



Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SA683	EM1117/OS	Cap mount	27	9.1
SAK281	HK200	Hygiene kit 2 cushions and foam inserts	-	-

HORNET, CSA CLASS A

Quality, economical protection for medium range noises. Lightweight plastic construction provides durable, dielectric protection. Colour: Red.

NORTH

SA685
Cap Mount



Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SA684	EM2175	Hornet headband	24	8.0
SA685	EM2177	Cap mount	24	8.0
SAK281	HK200	Hygiene kit 2 cushions and foams inserts	-	-

MUSTANG, CSA CLASS A

Lightweight and durable earmuffs provide low profile protection while soft sealing ear cushions give maximum comfort. Colour: Blue.

NORTH

SA690
Cap Mount



Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SA689	EM4155	Mustang headband	23	7.4
SA690	EM4157	Cap mount	20	9.3
SAK280	HK100	Hygiene kit 2 cushions and foam inserts	-	-

MOSQUITO, CSA CLASS B

Designed to avoid workplace hazards, with a no-snap band that won't catch hair. The ear cushions are extra-deep and have unique file-grain texture which reduces perspiration for cooler comfort; worn behind neck or under chin. Colour: Black/Yellow.

NORTH

SA706



Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SA706	EM3144	Mosquito headband	21	6.5
SAK279	HK50	Hygiene kit 2 cushions and foam inserts	-	-

Ear Muffs

XLS, CSA CLASS A

The XLS has been specifically designed to offer quality, comfort and protection at an affordable price. The space age plastic provides rugged durability in harsh environments. May be adjusted to 6 different positions. Extra wide headband provides secure fit. Colour: Red.



SAN234

MSA

Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SAN234	10061535	Cap Mount	22	6
SAN235	10061537	Hygiene Kit	-	-

EXC, CSA CLASS A

Wide headband with ventilated padding provides a firm fit and a high level of comfort with maximum protection. Two point mounting system ensures pressure is distributed evenly around the cushion. Press-and-snap function makes it easy to replace ear cushion. Contoured sealing ring feature provides the best possible seal. Also suitable for dielectric applications. Colour: Light Grey.



SAN237

MSA

Order No.	Mfg. No.	Description	NRR dB	Wt. oz.
SAN237	10061230	Cap Mount	24	7.6
SAN238	10061292	Hygiene Kit	-	-

**See Pages 170 to 190
for ZENITH Gloves!**

Coated



Chemical



Leather



Disposable



Winter



Welding

