SAFETY. TAKEN SERIOUSLY.

By designing cordless tools without compromise, and creating a range of PPE designed around user needs, at MILWAUKEE®, we’re making the jobsite safer and more productive every day.

Today, we’re proud to boast over 165 Cordless Tools on our M18 platform and over 80 Cordless Tools on our M12 platform, eliminating trip hazards from the jobsite. We’ve redefined the light equipment market with the launch of our MX Fuel range, preventing the need for petrol on the jobsite with the launch of key tools including the 14” Cut Off Saw, and Cordless Breaker.

Personal Protective Equipment has seen little innovation over the years, driving users to modify their gear to better meet their needs. By taking time to understand our users’ needs, we have developed PPE from the ground up, enabling users to adapt to each job. This has paved the way for innovative solutions such as our new safety glasses that can be worn all day with lasting, fog-free lenses.

MILWAUKEE® is committed to creating innovative solutions that help users stay safe and stay productive on the jobsite.

SAFETY GLASSES

Using the correct eye protection could reduce the severity or prevent 90% of jobsite eye injuries.

PREVENTBLINDNESS.ORG, 2019

SAFETY GLASSES

Using the correct eye protection could reduce the severity or prevent 90% of jobsite eye injuries.

PREVENTBLINDNESS.ORG, 2019

GLOVES

70% of workers who experienced hand injuries were not wearing the correct gloves.

MANUFACTURING.NET, 2019

LANYARDS

A falling object is the 3rd highest cause of fatality on a jobsite.

PEOPLESAFE.CO.UK, 2019

OVER 100 PPE SOLUTIONS

STAY SAFE. STAY PRODUCTIVE.
SAFETY GLASSES

EN 166:2001 PERSONAL EYE-PROTECTION

The EN 166 standard specifies requirements for personal eye-protectors, used to combat various hazards as encountered across numerous industries which are likely to damage the eye or impair vision. The EN 170 standard specifies requirements for ultraviolet filters, while EN 172 refers to the sun glare filtration for industrial use.

All Milwaukee safety glasses are certified according to EN 166, to guarantee the eye protection and the resistance to impact. The clear safety glasses are EN 173 certified, to offer an UV protection, even with clear lenses, while the tinted and polarised safety glasses are EN 172 certified to offer a solar protection, ideal for the jobsite and also during leisure time.

DISPOSABLE RESPIRATORS


<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>MATERIALS</th>
<th>FFP LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting, Drilling, Grinding, Sanding</td>
<td>Asbestos</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Brick Dust (Can contains Silica)</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Cement (Can contains Silica)</td>
<td>FFP3</td>
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<tr>
<td></td>
<td>Concrete (Can contains Silica)</td>
<td>FFP3</td>
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<td></td>
<td>Granate</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Sand Dust</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Wood Dust, Wood Dust (Can contains Silica)</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Metal</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Dust (Can contains Silica)</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Paint with Chromate, Acetic, Copper</td>
<td>FFP3</td>
</tr>
<tr>
<td></td>
<td>Plastics</td>
<td>FFP2</td>
</tr>
<tr>
<td></td>
<td>Cork</td>
<td>FFP2</td>
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<tr>
<td></td>
<td>Tin, Tin Oxide</td>
<td>FFP2</td>
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<tr>
<td></td>
<td>Soldering</td>
<td>FFP2</td>
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<tr>
<td></td>
<td>Stainless Steel</td>
<td>FFP3</td>
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<tr>
<td></td>
<td>Steel</td>
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<tr>
<td></td>
<td>Varnish</td>
<td>FFP2</td>
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<td></td>
<td>Waste Sorting</td>
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<tr>
<td></td>
<td>Sweeping Floors</td>
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<td></td>
<td>Paint</td>
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FILTERING LEVEL

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<tr>
<th>FFP1</th>
<th>FFP2</th>
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<tbody>
<tr>
<td>80%</td>
<td>94%</td>
<td>99%</td>
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</tbody>
</table>

3 classes of protection: FFP1 / FFP2 / FFP3

FFP = Filtering Facepieces
NR = Not Reusable
D = Dolomite (protection included when D mentioned)

EN 149 provides requirements, and testing method for respiratory protective devices to protect against particles.

HEARING PROTECTION

EN 352-2:2020 HEARING PROTECTORS: EARPLUGS

The EN 352 is the European standard for hearing protection which proves that the product protects adequately against noise. EN 352-2 is the standard for Ear Plugs.

SNR (Single Number Rating) = attenuation in dB
H/M/L = High-/ Medium- /Low-frequency attenuation value
Notes - SNR = residual noise level
Higher SNR or H/M/L value = higher noise attenuation

Hearing protection is mandatory when noise exceeds 85 dB (upper action level).

Employees must wear hearing protection
Over protection

SNR 85dB < Noise in dB (A) < 90dB

SNR 90dB < Noise in dB (A) < 100dB

SNR 100dB < Noise in dB (A) < 110dB

Employees must provide hearing protection

Breaker 77dB (A) < Noise in dB (A) < 85dB

Breaker 90dB (A) < Noise in dB (A) < 100dB

OVER ACTION LEVEL

Targets Zone

Employees must provide hearing protection

Employees must wear hearing protection

SNR 85dB < Noise in dB (A) < 90dB

Noise in dB (A) < 80dB

Noise attenuation 30-35dB (A)

Noise attenuation 25-30dB (A)

Noise attenuation 20-25dB (A)
**HAND PROTECTION**

**EN 388:2016 PROTECTIVE GLOVES AGAINST MECHANICAL RISKS**

The EN 388 standard specifies requirements, test methods, marking and information to be supplied for protective gloves against the mechanical risks of abrasion, blade cut, tear, puncture and, if applicable, impact.

The impact protection has to fully encompass the back of hand, including the fingers. The standard is intended to be used in conjunction with EN ISO 21420.

All Milwaukee hand protection solutions are certified according to both EN ISO 21420 and EN 388 standards, the rating given varies for each type of gloves. EN ISO 21420 is the European general requirement and test method standard for protective gloves.

**WINTER GLOVES**

**EN 511:2006 PROTECTIVE GLOVES AGAINST COLD**

The EN 511 standard specifies the requirements and test methods for protective gloves against convective cold or contact cold down to - 60 °C solid.

The cold can vary with the climatic conditions or one professional activity. This standard is intended to be used in conjunction with EN 388 and EN ISO 21420.

**HIGH VISIBILITY**

**EN ISO 20471:2013 HIGH VISIBILITY CLOTHING**

The EN ISO 20471 standard specifies requirements for high visibility clothing to ensure it is capable of visually signalling the user’s presence. High visibility clothing ensures the user can be seen in all light conditions and is divided into 3 performance classes depending on the requirements.

The Milwaukee high visibility vests are intended for multiple applications and are class 2 certified.

**Reflective Tape**

<table>
<thead>
<tr>
<th>Class 1</th>
<th>Class 2</th>
<th>Class 3</th>
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<tbody>
<tr>
<td>0.10 sqm</td>
<td>0.13 sqm</td>
<td>0.20 sqm</td>
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**Fluorescent Material**

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<tr>
<td>0.14 sqm</td>
<td>0.50 sqm</td>
<td>0.80 sqm</td>
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**Level of visibility**

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<tr>
<th>Lowest</th>
<th>Intermediate</th>
<th>Highest</th>
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</thead>
</table>

**KNEE PADS**

**EN 14404:2004+A1:2010 KNEE PROTECTORS FOR WORK WHEN KNEELING**

EN 14404 is the European standard for knee protection.

Knee pads certified according to the EN 14404 standard are tested regarding impact absorption, pressure distribution of the entire surface, penetration of sharp or pointy objects.

Knee pads are classified in types and in protection classes. Only certified products are allowed to show the protection class with the logo.

**Protection Class 0**

Flat or uneven floor surfaces.

**Protection Class 1**

Flat or uneven floor surfaces. Protects against penetration by a force of at least (100 ± 5) N.

**Protection Class 2**

Flat or uneven floor surfaces. Protects against penetration by a force of at least (250 ± 10) N.
# MILWAUKEE® GLASSES GUIDE

## GLASSES TYPE

### ENHANCED SAFETY GLASSES

<table>
<thead>
<tr>
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<th>CLEAR</th>
<th>GREY</th>
<th>TINTED</th>
<th>YELLOW</th>
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### MAGNIFIED SAFETY GLASSES

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### PERFORMANCE SAFETY GLASSES

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### PREMIUM SAFETY GLASSES

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<td>ANTI-FOG</td>
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<td>APPLICATIONS</td>
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</table>
PREMIUM SAFETY GLASSES WITH GASKET

- Durable anti-scratch lenses.
- Long lasting anti-fog lenses.
- Comfortable arms for extended wear.
- Polarised lenses to protect against glare (on the tinted version only).
- Removable gasket protects against debris.
- Includes a soft case.
- European Certified: EN166 and EN170 / EN 172.

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<tr>
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PERFORMANCE SAFETY GLASSES

- Durable anti-scratch lenses.
- Long lasting anti-fog lenses.
- Comfortable and flexible arms for extended comfort wear.
- Clear and tinted options offer eye protection whether working indoors or outdoors.
- European Certified: EN166 and EN170 / EN 172.

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<tr>
<td>Performance safety glasses Yellow</td>
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</table>

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET
The gasket places the glasses closer to the skin and avoids any dirt or debris entering into the eye. This is the perfect replacement for safety goggles, as the glasses offer the same dust protection, without the discomfort.

The tinted premium safety glasses benefit from polarised lenses to protect from glare, and offer best-in-class UV protection.

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES
Performance Safety Glasses also benefit from Milwaukee’s anti-scratch lenses, allowing for easy, care-free cleaning.

The anti-fog coating on the lens makes the glasses compatible for use with a respirator and perfect for all-day wear, inside and out.

Available in Tinted for outdoor work

Available in Clear for indoor work

PROVIDE A CLEAR VISION & MORE CONTRAST, PROTECT FROM THE BLUE LIGHT

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES

REMOVABLE GASKET

ANTI-SCRATCH LENSES

PREMIUM SAFETY GLASSES WITH GASKET

REMOVABLE GASKET
ENHANCED SAFETY GLASSES

- Light weight for extended comfort while wearing.
- Durable anti-scratch lenses.
- Comfortable and flexible arms for extended comfort wear.
- Clear and tinted options offer eye protection whether working indoors or outdoors.
- European Certified: EN166 and EN170 / EN172.

<table>
<thead>
<tr>
<th>Description</th>
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<td>4932478907</td>
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<tr>
<td>Enhanced Safety Glasses Yellow</td>
<td>1</td>
<td>1</td>
<td>4932478927</td>
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MAGNIFIED SAFETY GLASSES

- Magnified lenses - Offer users an optical correction to improve their eyesight for close application.
- 4 magnifying intensity: +1 / +1.5 / +2 / +2.5
- Light weight for extended comfort while wearing.
- Durable anti-scratch lenses.
- Comfortable and flexible arms for extended comfort wear.
- European Certified: EN166 and EN170.

<table>
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<tr>
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<th>Pack quantity</th>
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<tbody>
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<tr>
<td>Clear Safety Glasses (+1.5)</td>
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<td>4932479010</td>
</tr>
<tr>
<td>Clear Safety Glasses (+2)</td>
<td>1</td>
<td>1</td>
<td>4932479011</td>
</tr>
<tr>
<td>Clear Safety Glasses (+2.5)</td>
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<td>1</td>
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</tbody>
</table>

Grey Lens for professionals who are regularly changing between indoor and outdoor environments.

Correction Levels
+1, +1.5, +2, +2.5

Often users require an optical correction to improve their eyesight for close application, reducing the risk of accidents on the jobsite.

Magnified lenses - Offer users an optical correction to improve their eyesight for close application:
- 4 magnifying intensity: +1 / +1.5 / +2 / +2.5
- Light weight for extended comfort while wearing.
- Durable anti-scratch lenses.
- Comfortable and flexible arms for extended comfort wear.
- European Certified: EN166 and EN170.
### Banded Ear Plugs

- 3-point wear: above head, below chin and behind the neck.
- Pivoting arms to adjust and pivot the band to a secure and comfortable position while being worn.
- Earplugs can be worn continuously even if the wearing position is changed – permanent protection.
- Interchangeable foam earplugs and TPR flanged earplugs included.
- Durable and comfortable band for a long lifetime.
- European Certified hearing protectors: EN 352-2 (SNR TPR ear plugs = 32 dB; SNR Foam ear plugs = 33 dB).

### Performance Face Covering

- Structured Fit Design - Separates mask from mouth.
- 3 Soft and Breathable Layers - all day comfort for long time wear.
- Comfortable Adjustable Ear Loops - No pressure on the ears.
- Water Repellent Outer Layer.
- Flexible Nose Bridge - Adjustability for a better sealing and to reduce fog on glasses.
- Moisture Wicking Inner Layer - Stay Cool, Dry Fast.
- Machine Washable.

### Table

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<thead>
<tr>
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<td>1</td>
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<tr>
<td>Foam Replacement - 5 pair</td>
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</tbody>
</table>

### Diagrams

**32dB SNR Wear in 3 Positions**

- 3-point wear: above head, below chin and behind the neck.
- Pivoting arms to adjust and pivot the band to a secure and comfortable position while being worn.
- Earplugs can be worn continuously even if the wearing position is changed – permanent protection.
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**Performance Face Covering**

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- Moisture Wicking Inner Layer - Stay Cool, Dry Fast.
- Machine Washable.
### FFP2 RESPIRATOR
- FFP2 rating - filtering facepiece gives up to 94% protection.
- Flexible aluminum nose bridge - adjustable fit.
- Comfortable adjustable straps - easy fit.
- Anti-Clogging Inner Layer - Stay Cool all day long.

### FFP2 FOLDABLE RESPIRATOR
- FFP2 rating - filtering facepiece gives up to 94% protection.
- Foldable Respirator - Flat fold for easy carrying on job site.
- Flexible aluminum nose bridge - adjustable fit.
- Comfortable adjustable straps - easy fit.

### FFP2 RESPIRATOR WITH VALVE
- FFP2 rating - filtering facepiece gives up to 94% protection.
- One Way Valve - Easy and fog free breathing.
- Flexible aluminum nose bridge - adjustable fit.
- Comfortable adjustable straps - easy fit.
- Anti-Clogging Inner Layer - Stay Cool all day long.

### FFP2 FOLDABLE RESPIRATOR WITH VALVE
- FFP2 rating - filtering facepiece gives up to 94% protection.
- One Way Valve - Easy and fog free breathing.
- Flexible aluminum nose bridge - adjustable fit.
- Comfortable adjustable straps - easy fit.
- Anti-Clogging Inner Layer - Stay Cool all day long.
**ALWAYS STAND-OUT**

**PADDED COLLAR**

**SECURE ZIPPED CLOSURE**

**INTERNAL SIZE ADJUSTMENT**

**UP TO 15 STORAGE POCKETS**

**PREMIUM HIGH-VISIBILITY VEST**

- 10 pockets - increased carrying capacity.
- 1 clear ID badge holder - easy identification on the jobsite.
- Quick internal size adjustment - size up or size down for better fit.
- Harness tethering hole - ideal to fit over harness to add more safety on the jobsite.

**PREMIUM HIGH-VIS VEST (YELLOW)**

<table>
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**PREMIUM HIGH-VIS VEST (ORANGE)**

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**HIGH-VISIBILITY VEST**

- 10 pockets - increased carrying capacity.
- 1 clear ID badge holder - easy identification on the jobsite.
- Quick internal size adjustment - size up or size down for better fit.
- Harness tethering hole - ideal to fit over harness to add more safety on the jobsite.

**HIGH-VIS VEST (YELLOW)**

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**HIGH-VIS VEST (ORANGE)**

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# Milwaukee® Gloves Guide

## Glove Types

<table>
<thead>
<tr>
<th>Cut Resistant Gloves</th>
<th>Winter Cut Resistant Gloves</th>
<th>Work Gloves</th>
<th>Impact Gloves</th>
<th>Leather Gloves</th>
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<tr>
<td>Cut Level 1/A</td>
<td>Cut Level 3/C</td>
<td>Winter Cut Level 1/A</td>
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<td></td>
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## Features Key

- **Cutoff Resistance**: 1/A, 3/C, 5/E
- **Winter Cut**: 1/A, 3/C
- **Impact Resistance**: 1/A, 3/C, 5/E
- **Winter Leather Impact Resistance**: 1/A

## Features

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<td>4343C</td>
<td>4442C</td>
<td>4X44E</td>
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## Applications

- Auto Mechanical
- Concrete / Masonry
- Construction Work
- Demolition
- Drywall
- Glass Handling
- Paint
- Material Handling
- Offshore
- Oil & Gas
- Painting
- Pipe Threading
- Plumbing
- Railwork
- Roof Insulation
- Scaffolding
- Wet Surface
- Wire Stripping
- Wood Working

## Sizes

- **Medium**: 8
- **Large**: 9
- **Extra Large**: 10

## EN 388: Rating

- **1-4**: Abrasion
- **1-5**: Cut (Coup Test)
- **1-4**: Tear
- **1-4**: Puncture
- **A-F**: Cut (TDM-100 Test)
- **P,F,X**: Impact Protection

## Comfort

- **Dexterity**: SmartSwipe™
- **Breathability**: 4X
- **Puncture Resistance**: & Grip Performance
- **Winter Leather Impact Resistance**: Reinforced with ArmorTec®
### DEMOLITION GLOVES
- **ARMOTEX™** reinforced palms and finger tips: Increased durability and hand protection.
- **SMARTSWIPE™** knuckle: Capacitive touch allows to use touch screens without removing gloves or using dirty fingertips.
- Breathable stretch lining: Provides ultimate comfort and breathability.
- Knuckle protection: TPR pad provides knuckle protection.
- Terry cloth thumb: Built-in sweat wipe.
- Hook & Loop closure for secure fit.
- Fulfill the requirements of CE Category 2, EN 420 and EN 388 – 2121X.

### ARMOTEX™
**REINFORCED PALMS AND FINGER TIPS**
INCREASED DURABILITY AND HAND PROTECTION

### FINGERLESS GLOVES
- Designed for ultimate dexterity when handling small objects.
- High-quality, touchscreen compatible.
- Moisture wicking lining provides all-day comfort.
- Built-in sweat wipe.
- Hook & Loop closure for secure fit.
- Fulfill the requirements of CE Category 2, EN 420 and EN 388 (2121X).

### FREE-FLEX WORK GLOVES
- **SMARTSWIPE™** knuckle, palm and fingertips.
- Flexible and elastic knuckles.
- High-quality, touchscreen compatible.
- Reinforced thumb seam.
- High-quality, high loop closure.
- Fulfill the requirements of CE Category 2, EN 420 and EN 388 (2121X).

### GLOVE SIZING GUIDE
The correct fitting of work gloves is extremely important. Too big or too small and it can result in an uncomfortable fit. This in turn can result in hand fatigue and ultimately it could lead to a potential workplace hazard.

To minimise hand fatigue and possible workplace hazards, measure your hand to find the correct size of Milwaukee® glove for you.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>MEDIUM / 8</td>
<td>119mm</td>
<td>244mm</td>
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<tr>
<td>LARGE / 9</td>
<td>192mm</td>
<td>229mm</td>
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<tr>
<td>XL / 10</td>
<td>204mm</td>
<td>254mm</td>
</tr>
<tr>
<td>XXL / 11</td>
<td>215mm</td>
<td>279mm</td>
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**MEASURING GUIDANCE**
Place your hand on the image to determine your correct glove size. The ball of your thumb should be just in front of the line as indicated. Keep your fingers straight.
CUT RESISTANT GLOVES.

• Designed to provide ultimate durability, all-day comfort and best in class for dexterity
• Reinforced palm due to a nitrile texture
• SMARTSWIPE™ palm and fingers - allows the usage of touch screen devices without removing gloves

RESISTANCE TO CUT AND ABRASION

CUT LEVEL 1/A
Ideal for material handling and light constructions duty.

CUT LEVEL 3/C
Double layer nitrile creates the ideal glove for handling sharp objects.

CUT LEVEL 5/E
Double layers of nitrile for added durability and increased protection to cut and abrasion.

HIGH-VIS CUT LEVEL 3/C GLOVES.

• Fluorescent material - high visibility
• Ideal protection for stripping wire or pipe threading and cutting
• Lightweight and extra thin gloves - more breathability and more dexterity

CUT LEVEL 1/A DIPPED GLOVES

• Designed to provide ultimate durability, all-day comfort and best in class for dexterity
• Reinforced palm due to a nitrile texture
• SMARTSWIPE™ palm and fingers - allows the usage of touch screen devices while wearing gloves
• European Certified for cut protection: EN388:2016 (2442C), EN511 (02X)

CUT LEVEL 3/C DIPPED GLOVES

• Reinforced palm due to a nitrile texture
• Reinforced nitrile coating with added protection to abrasion, ideal for material handling or light construction duty.
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CUT LEVEL 5/E DIPPED GLOVES

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WINTER CUT LEVEL 1/A DIPPED GLOVES

• Water insulation will keep the hands warm when working in cold conditions.
• Reinforced palm due to nitrile coating.
• Ideal for stripping wire or pipe threading and cutting.
• Reinforced palm due to nitrile coating.
• Reinforced palm due to nitrile coating.

WINTER CUT LEVEL 3/C DIPPED GLOVES

• Water insulation will keep the hands warm when working in cold conditions.
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WINTER CUT LEVEL 3/C DIPPED GLOVES

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• Reinforced palm due to nitrile coating.
• Ideal for stripping wire or pipe threading and cutting.
• Reinforced palm due to nitrile coating.
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IMPACT CUT LEVEL 3/C GLOVES

- Impact resistant material on back of the hand and fingers reduces and absorbs shock.
- Reinforced inter-digit construction between thumb and index fingers.
- Excellent grip performance - nitrile material provides additional protection between thumb and fingers.
- SMARTSWIPE™ palm and fingertips - allows the use of touch screen devices without removing gloves.

LEATHER GLOVES

- Top grain goatskin material provides extended durability and reinforced protection of hands.
- Reinforced palm provides added comfort and protection while handling heavy objects.
- Keystone thumb for comfortable fit and extended wear.
- SMARTSWIPE™ - Allows the use of touch screen devices without removing the gloves on the index finger knuckle.

HYBRID LEATHER GLOVES

- SMARTSWIPE™ - Allows the use of touch screen devices without removing the gloves on the index finger knuckle.
- Leather on the back of the hand for extended durability and reinforced protection of hands.
- Synthetic leather on back of the hand to allow more dexterity and breathability while working.
- Reinforced palm for added comfort and protection while handling heavy objects.
### Premium Non-Marking Knee Pad

- High density foam padding with a supporting premium gel injection.
- Non-marking coating to prevent scratches on sensitive surfaces.
- Comfortable and non-abrasive double straps with a puller rubber strip.
- Buckles with metal rivets that withstand repeatedfastenings.
- MILWAUKEE® /PRE Solutions for a long lifetime.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pack quantity</th>
<th>Min. order quantity</th>
<th>Article number</th>
</tr>
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<tbody>
<tr>
<td>Premium Non-Marking Knee Pad</td>
<td>1</td>
<td>1</td>
<td>482471/28</td>
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</tbody>
</table>

### Hard Knee Pad

- Thick comfortable foam padding with a supporting gel zone.
- Durable hard cap with a transparent high number.
- Size adjustable double straps for a better hold and a custom fit.
- Buckles with metal rivets that withstand repeatedfastenings.
- MILWAUKEE® /PRE Solutions for a long lifetime.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pack quantity</th>
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<tbody>
<tr>
<td>Hard Knee Pad</td>
<td>1</td>
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<td>482471/27</td>
</tr>
</tbody>
</table>

### Flexible Knee Pad

- Flexible, lightweight and comfortable foam padding.
- Water resistant cap.
- Debris guard to prevent debris from entering.
- Size adjustable straps for a custom fit.
- Buckles to quickly put on and off the knee pad.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pack quantity</th>
<th>Min. order quantity</th>
<th>Article number</th>
</tr>
</thead>
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<tr>
<td>Flexible Knee Pad</td>
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<td>482471/26</td>
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</table>
# Why Milwaukee® Lanyards?

A falling object is the 3rd highest cause of fatality on a jobsite.

(PeopleSafe.co.uk, 2019)

## Milwaukee® Lanyards

**Why Milwaukee® Lanyards?**

- **Falling Object** is the 3rd highest cause of fatality on a jobsite.

## Tool Drop Prevention

- **Milwaukee® Lanyards**

## Tool Drop Prevention

- **locking Tool Lanyards**
- **wrist Tool Lanyard**
- **retractable Tool Lanyard**
- **Tool Lanyard Accessories**

<table>
<thead>
<tr>
<th>NAME</th>
<th>4.5 KG Locking Tool Lanyard</th>
<th>4.5 KG Quick Connect Locking Tool Lanyard</th>
<th>6.8 KG Locking Tool Lanyard</th>
<th>15.8 KG Locking Tool Lanyard</th>
<th>4.5 KG Quick Connect Retractable Tool Lanyard</th>
<th>4.5 KG Quick Connect Retractable Tool Lanyard</th>
<th>6.8 KG Quick Connect Retractable Tool Lanyard</th>
<th>15.8 KG Quick Connect Retractable Tool Lanyard</th>
<th>2.2 KG Quick Connect Retractable Tool Lanyard</th>
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<tr>
<td>PART NUMBER</td>
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<td>4932471429</td>
<td>4932471352</td>
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<td>4932471430</td>
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<td>WEIGHT CAPACITY</td>
<td>4.5 KG</td>
<td>4.5 KG</td>
<td>6.8 KG</td>
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<td>2.2 KG</td>
<td>2.2 KG</td>
<td>22.7 KG</td>
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<td>2.2 KG</td>
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<tr>
<td>COLUR CODING</td>
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<td>RED</td>
<td>BLACK</td>
<td>GREY</td>
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<td>WHITE</td>
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<tr>
<td>TETHER MECHANISM</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>COMPATIBLE WITH</td>
<td>ANCHORING STRAP</td>
<td>ALL ACCESSORIES</td>
<td>ANCHORING STRAP</td>
<td>ANCHORING STRAP</td>
<td>-</td>
<td>ALL ACCESSORIES</td>
<td>ALL ACCESSORIES</td>
<td>SELF-ADHERING TAPE &amp; 4.5 KG QUICK CONNECT LOCKING TOOL LANYARD</td>
<td>4.5 KG QUICK CONNECT LOCKING TOOL LANYARD</td>
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<tr>
<td>INTEGRATED SWIVEL</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SUITABLE PRODUCTS*</td>
<td>DRILL DRIVER IMPACT DRIVER IMPACT WRENCH Hacksaw Hackzall Sawzall Shears</td>
<td>DRILL DRIVER IMPACT DRIVER IMPACT WRENCH SDS PLUS Hackzall Sawzall BandSaws</td>
<td>ANGLE GRINDER DRILL DRIVER IMPACT DRIVER IMPACT WRENCH SDS PLUS Hackzall Sawzall BandSaws</td>
<td>CHAINSAW</td>
<td>DRILL DRIVERS IMPACT DRIVERS IMPACT WRENCH Handtools</td>
<td>DRILL DRIVERS IMPACT DRIVERS IMPACT WRENCH Handtools</td>
<td>DRILL DRIVERS IMPACT DRIVERS IMPACT WRENCH Handtools</td>
<td>ALL LOCKING TOOL LANYARDS</td>
<td>HANDTOOLS WITH LANYARD HOLE Hammers Cutters Pliers</td>
</tr>
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<td>APPLICATION</td>
<td>DRILL DRIVERS IMPACT DRIVERS IMPACT WRENCH SDS PLUS Hackzall Sawzall BandSaws</td>
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<td>HANDTOOLS WITH LANYARD HOLE Screwdrivers Tapes Pliers</td>
</tr>
</tbody>
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*All product recommendations are only references and are not guaranteed! Please make sure that the total weight of the tethered product (+ Battery) does not exceed the weight capacity of the tool lanyard!
TOOL LANYARDS

1. SUPERIOR SHOCK ABSORPTION
2. DOUBLE LOCKING CARABINER
3. INTEGRATED SWIVEL
4. QUICK-CONNECT SYSTEM
5. COLOUR CODED
6. HIGH VERSATILITY

QUICK-CONNECT RED LANYARD
- 4.5 Kg Locking Tool Lanyard

LIGHTWEIGHT RED LANYARD
- 4.5 Kg Locking Tool Lanyard

MID-WEIGHT BLACK LANYARD
- 6.8 Kg Locking Tool Lanyard

HEAVYWEIGHT GREY LANYARD
- 15.8 Kg Locking Tool Lanyard

ANCHORING STRAP

WRIST TOOL LANYARD
- Secure and comfortable tool attachment to the wrist
- Soft and adjustable strap - fits all wrist sizes with a hook and loop closure
- Hang loop to securely attach all kinds of tools - power tools, tapes, screwdrivers, etc.
- Wrist lanyard allows an easy access to tools in a tight environment or in repetitive work
- Colour coded weight rating - easy identification of lanyard weight capacity
- High versatility - lanyard accessories can be added to connect all tools to the lanyards

TOOL LANYARD ACCESSORIES
- High versatility - lanyard accessories can be added to connect all tools to the lanyards
- Easy and versatile connection to all kinds of tools
- Strong and secure attachment
- Including performance for all ultimate tool tethering

LOCKING TOOL LANYARDS
- Superior shock absorption - gradually stop the tool if dropped
- Double locking carabiner - ensures a secure connection that cannot become loose or slip off accidentally
- Integrated swivel - provides smooth and tangle-free mobility
- Colour coded weight rating - easy identification of lanyard weight capacity
- High versatility - lanyard accessories can be added to connect all tools to the lanyards

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour code</th>
<th>Article Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 kg QUICK-CONNECT™ locking tool lanyard</td>
<td>Red</td>
<td>4932471429</td>
</tr>
<tr>
<td>4.5 kg locking tool lanyard</td>
<td>Red</td>
<td>4932471351</td>
</tr>
<tr>
<td>6.8 kg locking tool lanyard</td>
<td>Black</td>
<td>4932471352</td>
</tr>
<tr>
<td>15.8 kg locking tool lanyard</td>
<td>Grey</td>
<td>4932471353</td>
</tr>
</tbody>
</table>

RETRACTABLE TOOL LANYARD
- Automatically retracts, 130 cm when extended
- Double locking carabiner - ensures a secure connection that cannot become loose or slip off accidentally
- Double lock - greater control during use
- Integrated swivel - provides smooth and tangle-free mobility

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<th>Colour code</th>
<th>Article Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 kg Quick-Connect Retractable Tool Lanyard</td>
<td>White</td>
<td>4932471353</td>
</tr>
</tbody>
</table>

MILWAUKEE® PPE SOLUTIONS | 33
### HEATED JACKETS & HEATED GEAR

**CARBON FIBRE HEATING TECHNOLOGY WITH THE POWER AND DURABILITY OF M12™ REDLITHIUM™ BATTERIES**

#### M12™ HEATED HYBRID PUFFER VEST
- **M12 HBWP**
- Powered by M12™ REDLITHIUM™ battery technology, the hybrid puffer jacket uses carbon fibre heating elements to create and distribute heat to the chest and back
- A one-touch LED controller allows the user to select from 3 heat settings, delivering ideal heat for any environment
- Superior run time – up to 6 hours of heat on a single battery charge (2.0 Ah)

#### M12™ HEATED HYBRID PUFFER JACKET
- **M12 HJP**
- Powered by M12™ REDLITHIUM™ battery technology, the hybrid puffer jacket uses carbon fibre heating elements to create and distribute heat to the chest, back, and shoulders
- A one-touch LED controller allows the user to select from 3 heat settings, delivering ideal heat for any environment
- Superior run time – up to 8 hours of heat on a single battery charge (2.0 Ah)

#### M12™ LADIES HEATED JACKET
- **M12 HJ LADIES2**
- Heat on Demand - 4 sewn in carbon fibre heating zones, distributes heat to core body areas, collar, and to the front pockets
- Superior run time, up to 8 hours of heat on a single battery charge at an M12™ REDLITHIUM™ 2.0 Ah battery pack
- Easy touch heat controller - 3 heat settings: High, Medium, Low

#### M12™ PREMIUM HEATED JACKET
- **M12 HJ BL4**
- Heat on Demand - 5 sewn in carbon fibre heating zones, distributes heat to core body areas and to the front pockets
- Superior run time, up to 8 hours of heat on a single battery charge at an M12™ REDLITHIUM™ 2.0 Ah battery pack
- Easy touch heat controller - 3 heat settings: High, Medium, Low

#### USB RECHARGEABLE HEATED WORKSKIN™ BASE LAYER
- **L4 HBLB**
- Mid-weight construction out of durable, pilling resistant material, keeps body warm and dry
- Fully heated up to 3.5 min
- Heat is created and distributed to the chest and back
- Powered by a L4 USB rechargeable REDLITHIUM™ battery pack

#### M12™ BLACK HEATED HOODIE
- **M12 HH BL3**
- Rugged heated hoodie made from durable cotton (53%) exterior with durable reinforced utility pockets and waffle-weave polyester (47%) lining to withstand tough outdoor conditions
- In autumn and spring the hoodie can be worn as a rugged outer layer. In winter, it is best as a base layer that allows to shed bulky undergarments while generating and holding heat close to the body

#### USB RECHARGEABLE HEATED WORKSKIN™ BASE LAYER
- **USB rechargeable heated WORKSKIN™ base layer**
- Fully heated up to 2.5 min
- Heat is created and distributed to the chest and back
- Powered by a USB rechargeable REDLITHIUM™ battery pack

---

**MORE COLOURS AVAILABLE ONLINE**

**ALSO AVAILABLE ONLINE**

---

**HEATED GEAR**

**WASHER & DRYER SAFE**

**UP TO 8HR RUNTIME**

**3 HEAT SETTINGS**

**3 HEAT SETTINGS**

---

**LADIES JACKETS ALSO AVAILABLE ONLINE**

**LADIES BODY WARMER ALSO AVAILABLE ONLINE**
NON HEATED GEAR

NCFM
NECK GAITER & FACE MASK
• Multi-functional, wear it as a neck gaiter, face mask, headband, or forehead protection on the job site
• Moisture wicking fabric, dries quickly, keeps wearer cool and dry
• Durable, comfortable fabric made from 96% Polyester and 4% Lycra
• Silv-A-Phenom protection blocks 99% of all rays

WWSSG
WORKSKIN™ LIGHT WEIGHT PERFORMANCE SHORT SLEEVE SHIRT - GREY
• COOLCORE® performance fabric use patented three yarn construction to wick moisture away from the body and keep the wearer cool in any climate regardless of the heat
• Fast wicking sweat zones extend down the back and under the arms to accelerate drying in high sweat body areas
• Chemical-free moisture wicking allows shirt to dry faster, reduces saturation and doesn’t wash out over time

WTSSG
WORK T-SHIRT SHORT SLEEVE - GREY
• Tear, abrasion resistant and breathable fabric
• 60/40 cotton-poly blend-wicks moisture and water repels
• Heavy duty 230 GSM fabric weight
• UPF 30+ rating, blocks harmful UV rays

NGFM
NECK GAITER & FACE MASK
• Multi-functional, wear it as a neck gaiter, face mask, headband, or headgear protection on the jobsite
• Moisture wicking fabric dries quickly, repels sweat & water, keeps users dry on the jobsite
• Breathable, comfortable fabric made from 86% Polyester and 14% Spandex
• 50+ UPF sun protection blocks 98% of UV rays

WHB
WORK HOODIE BLACK
• Made from durable, breathable fabric for all-day protection to outlast the job
• Soft outer shell and moisture-resistant 75/25 cotton/poly blend
• Terry fabric is wind-resistant, and two ventilation slits in the back and sides make these work hoodies great for the most demanding conditions
• Contains adjustable hood for perfect comfort
• Reinforced pocket seams, fog longer lifetime
<table>
<thead>
<tr>
<th>Description</th>
<th>Article Number</th>
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<tbody>
<tr>
<td><strong>INTERNAL USB RECHARGEABLE PEN LIGHT</strong></td>
<td></td>
</tr>
<tr>
<td>250 Lumens of TRUEVIEW™ high definition output</td>
<td></td>
</tr>
<tr>
<td>IP67 rated for submersion in up to 2 meter of water and protection from dust</td>
<td></td>
</tr>
<tr>
<td>Laser pointer provides accuracy needed in precise communication</td>
<td></td>
</tr>
<tr>
<td>Protective Rubber Bit-Zone for hands-free use</td>
<td></td>
</tr>
<tr>
<td>Two modes to optimise brightness and beam focus</td>
<td></td>
</tr>
<tr>
<td>Conveniently charge REDLITHIUM™ internal battery with micro-USB cable and LED power supply or AC outlet (wall plug not included)</td>
<td></td>
</tr>
<tr>
<td>Safety-adding feature allows end user to be informed of low battery output</td>
<td></td>
</tr>
<tr>
<td>Reversible, tamperable clip for optimised attachment</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNAL USB RECHARGEABLE FLASHLIGHT</strong></td>
<td></td>
</tr>
<tr>
<td>500 Lumens of TRUEVIEW™ high definition output</td>
<td></td>
</tr>
<tr>
<td>IP67 rated for submersion in up to 2 meter of water and protection from dust</td>
<td></td>
</tr>
<tr>
<td>Magnetic attachment for hands-free use</td>
<td></td>
</tr>
<tr>
<td>Reversible, tamperable clip for optimised attachment</td>
<td></td>
</tr>
<tr>
<td>Safety-adding feature allows end user to be informed of low battery output</td>
<td></td>
</tr>
<tr>
<td>Conveniently charge REDLITHIUM™ internal battery with micro-USB cable and LED power supply or AC outlet (wall plug not included)</td>
<td></td>
</tr>
<tr>
<td>Visible light micro-USB braided cable with metal ends</td>
<td></td>
</tr>
<tr>
<td>Includes USB cable</td>
<td></td>
</tr>
</tbody>
</table>

**USB RECHARGEABLE POCKET FLOOD LIGHT**

- 445 Lumens of TRUEVIEW™ high definition output
- Can be mounted with stable magnetic and clipped on pocket
- Compact size allows easy storage in pocket
- IP67 rating for protection from dust and splashing water
- Impact and chemical resistant lens
- Fuel gauge allows fast checking of REDLITHIUM™ USB battery charge
- Conveniently charge REDLITHIUM™ USB battery externally with micro-USB cable from USB power source or AC outlet (wall plug not included)
- Includes thin, micro-USB braided cable with metal ends

**USB RECHARGEABLE 800L FIXED FLASHLIGHT**

- 800 Lumens of TRUEVIEW™ high definition output with up to 150 m beam distance
- Trademarked TRUEVIEW™ high definition output for distance and up-close illumination
- IP67 rated for submersion in up to 2 meter of water and protection from dust
- Momentary & constant power on button
- Safety blinking feature allows end user to be informed of low battery status
- Conveniently charge REDLITHIUM™ USB battery with micro-USB cable from USB power source or AC outlet (wall plug not included)
- Includes thin, micro-USB braided cable with metal ends

**USB RECHARGEABLE FIXED SERIAL LED FLASHLIGHT**

- 250 Lumens of TRUEVIEW™ high definition output
- IP67 rated for submersion in up to 2 meter of water and protection from dust
- Laser pointer provides accuracy needed in precise communication
- Protective Rubber Bit-Zone for hands-free use
- Two modes to optimise brightness and beam focus
- Conveniently charge REDLITHIUM™ internal battery with micro-USB cable and LED power supply or AC outlet (wall plug not included)
- Safety-adding feature allows end user to be informed of low battery output
- Reversible, tamperable clip for optimised attachment

**USB RECHARGEABLE FIXED SERIAL LED FLASHLIGHT**

- 500 Lumens of TRUEVIEW™ high definition output with up to 100 m beam distance
- Trademarked TRUEVIEW™ high definition output for distance and up-close illumination
- IP67 rated for submersion in up to 2 meter of water and protection from dust
- Magnetic attachment for hands-free use
- Reversible, tamperable clip for optimised attachment
- Safety-adding feature allows end user to be informed of low battery output
- Conveniently charge REDLITHIUM™ internal battery with micro-USB cable and LED power supply or AC outlet (wall plug not included)
- Visible light micro-USB braided cable with metal ends
- Includes USB cable
MILWAUKEE® HEADLAMPS

MILWAUKEE® headlamps deliver high output light while conveniently attaching and securing to hard hats with clips and a rubber grip. Our personal headlamps feature a variety of output modes and light intensities ensuring you have the light you need regardless of the task.

Built-in positioning head tilt allows users to direct the light wherever it is needed. All of the LED headlights feature TRUEVIEW™ high definition lighting providing neutral, color-accurate light. Many of the personal headlamps feature an ultra-thin light head that provides an unobstructed view with 125° of flood beam coverage.

<table>
<thead>
<tr>
<th>HEADLAMPS</th>
<th>CHARGE TIME (MINS)</th>
<th>BATTERY INDICATOR</th>
<th>RUNTIME (HRS)</th>
<th>BEAM (M)</th>
<th>BATTERY</th>
<th>BATTERY INDICATOR</th>
<th>CHARGE TIME (MINS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR HL - INTRINSICALLY SAFE HEADLAMP</td>
<td>450</td>
<td>YES</td>
<td>350</td>
<td>150</td>
<td>25</td>
<td>2</td>
<td>&lt;120</td>
</tr>
<tr>
<td>HL-3 LED - RECHARGEABLE HEADLAMP</td>
<td>450 Lumens of TRUEVIEW™ high definition output with 100 m spot beam distance out a wide flood beam</td>
<td>YES</td>
<td>350</td>
<td>150</td>
<td>25</td>
<td>2</td>
<td>&lt;120</td>
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<tr>
<td>HL-SF - SPOT FLOOD HEADLAMP</td>
<td>350 Lumens of TRUEVIEW™ high definition output</td>
<td>YES</td>
<td>350</td>
<td>150</td>
<td>25</td>
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</tr>
</thead>
<tbody>
<tr>
<td>IR HL - ALKALINE SPOT FLOOD HEADLAMP</td>
<td>450</td>
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<td>25</td>
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</tbody>
</table>

**WHAT IS A HAZARDOUS LOCATION?**
A hazardous location is an area or environment where flammable liquids, gases or vapors, and/or combustible dust exist in sufficient enough quantities to produce an explosion or fire.

**WHAT MAKES A LIGHT INTRINSICALLY SAFETY?**
An intrinsically safe light will not cause ignition of hazardous material.

**MATERIAL**
Flammable liquid, flammable gas, dust

**ENvironments**
Zone 0, Zone 1, Zone 2, Example: Acetylene, Hydrogen, Ethylene, Propane

**What is a hazardous zone?**
Categorizes the various hazardous materials that may be present in a work space.

**Zone 0**
All hazardous area in which ignitable concentrations of flammable mixtures are present continuously or for a prolonged period of time.

**Zone 1**
Location where ignitable concentrations of flammable mixtures may be present periodically or for a short duration.

**Zone 2**
Location where ignitable concentrations of flammable mixtures are not likely to occur.

**Examples of zones**
Example: Oil refinery, offshore oil rig, vault, example: Aircraft hanger

**What is a hazardous material?**
A hazardous materials is any material or substance that may be harmful to human health or damage to property and the environment.

**Examples of hazardous materials**
Example: Oil, gas, flammable liquid, flammable gas, dust, static electricity, nonsparking tools.

**What are the hazards of a hazardous area?**
A hazardous area presents a risk of injury to a worker or the environment.

**Example: Acetylene, Hydrogen, Ethylene, Propane**

**How does TRUEVIEW™ differ from other headlamps?**
TRUEVIEW™ headlamps deliver true color-accurate light, providing the user with the highest level of visual clarity.

**REDLITHIUM™ USB Rechargeable Batteries**
Color-accurate light. Many of the personal headlamps feature our REDLITHIUM™ USB Rechargeable batteries allowing for all-day runtime.

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**What is a hazardous material?**
A hazardous materials is any material or substance that may be harmful to human health or damage to property and the environment.

**Examples of hazardous materials**
Example: Oil, gas, flammable liquid, flammable gas, dust, static electricity, nonsparking tools.

**What are the hazards of a hazardous area?**
A hazardous area presents a risk of injury to a worker or the environment.

**Example: Acetylene, Hydrogen, Ethylene, Propane**

**How does TRUEVIEW™ differ from other headlamps?**
TRUEVIEW™ headlamps deliver true color-accurate light, providing the user with the highest level of visual clarity.
1M BARS
1m bars are the perfect solution for gaining incremental sales and new business. They are supplied pre-merchandised, and come with the re-order tags for added convenience when managing inventory.

GLOVES

BULK PACKS

LEVELS

CAROUSEL

This rotating, four-sided display is great in store as it has a small footprint and takes up minimal space. However, due to the height of the display it still allows for lots of stock to be displayed so is perfect for stores where space is a premium.