



Safety
Products

3M™ HARD HATS

A construction worker is shown from the chest up, wearing a white hard hat, a blue and white plaid shirt, and black safety gloves. He is carrying a large, light-colored wooden beam across his right shoulder. The background is a blurred construction site with wooden framing and greenery. The text "SAFETY YOU CAN TRUST." is overlaid in white, bold, sans-serif font across the center of the image.

SAFETY YOU CAN TRUST.



3M™ HARD HATS

Let's get to the point: Any time there's a risk of falling objects, you need head protection. Make sure you choose a trusted brand that provides comfort, protection, balance and stability to help keep you safe on the job.

3M™ Hard Hats are available with a range of features to fit your needs, with front brim and full brim models along with vented and non-vented versions. Using advanced 3M engineering, the suspension sits lower on the back of the head for a secure and comfortable fit. The suspension and shell work together to help absorb impact and deflect objects. Accessory slots can accommodate eye, face and hearing protection to provide complete coverage. And easy adjustments plus lightweight design help you stay comfortable and protected.



USER INFORMATION

This document provides basic information on hard hat use, testing and standards compliance. In all cases, a risk/hazard assessment should be carried out and use limitations considered to ascertain the protection required.



Purposes for wearing a protective hard hat:

1. Help protect workers from head trauma due to small objects falling from above.

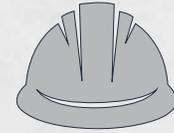
Hard outer shell usually made from HDPE (high-density polyethylene), ABS (acrylonitrile butadiene styrene) or other thermoplastic material.

2. Help prevent force from transmitting down the spine if an impact from above occurs.

Inner suspension that is attached to the shell reduces forces that would otherwise be transmitted to the head and spine.

3. Help protect from low-level electrical shock (applies only to hard hats that meet ANSI/ISEA Z89.1-2014 Type 1, Class G and E, and CSA Z94.1-2015 Type 1, Class G and E).

Hard outer shell. The homogenous material insulates against low-level electrical shock. Not all hard hats provide electrical protection. Always review the hard hat user instructions and warnings to evaluate electrical protection.



ANSI/ISEA Z89.1-2014 Requirements

Overview: Establishes the minimum performance requirements for protective helmets that reduce the forces of impact and penetration and that may provide protection from electrical shock.

Impact Type:

Type I: Intended to reduce force of impact from blow to top of the head.

Type II: Intended to reduce force of impact from blow to top or sides of the head.

All 3M™ Hard Hats are Type I.

Electrical Classes:

Class C (Conductive)

- ▶ Not intended to provide protection against contact with electrical hazards

Class G (General)

- ▶ Reduce the danger of contact with low-voltage conductors
- ▶ Proof-tested at 2,200 volts

Class E (Electrical)

- ▶ Reduce the danger of contact with higher-voltage conductors
- ▶ Proof-tested at 20,000 volts

Cautionary Note on Electrical Protection

Class G and E helmets provide limited electrical protection. The maximum voltage against which the helmet will protect the wearer depends on a number of variables, including the characteristics of the electrical circuit, condition of the helmet and prevailing weather conditions. The safe use of helmets in electrical applications must be established by the authority with jurisdiction.

Two Types of Adjustable Suspension Systems

Ratchet Adjustment: The wearer can quickly loosen or tighten the nylon suspension by turning a ratchet-type knob while still wearing the hat. Includes a replaceable, ventilated foam brow pad between the forehead and the suspension.

Pinlock Adjustment: Similar to a belt, the wearer loosens or tightens the nylon suspension by choosing the appropriate hole along the locking mechanism. The wearer must remove the hard hat to adjust the suspension. Includes a replaceable standard foam brow pad.

Replacement Recommendations

Hard hat should be immediately replaced if subjected to impact. 3M recommends the wearer replace the hard hat suspension at least every 12 months and the hard hat shell at least every 2 to 5 years, depending on the work environment. Inspect the hard hat, including the suspension and shell, prior to each use. Replace at the first sign of wear. Refer to user instructions for proper installation and replacement of the suspension.



Hard Hat Inspection

A hard hat shell should be inspected prior to each use. Immediately replace the hard hat if any sign of wear appears or if there is any evidence of damage, abuse or plastic degradation as this may be a sign that protection is reduced. Any hard hat that shows signs of worn or damaged parts should be removed from service immediately and replaced.

Workers in environments with higher levels of exposure to sunlight, heat, cold or chemicals should replace their hard hats more frequently than workers in other environments. If the hard hat shell becomes faded in color, exhibits a chalky appearance or feels stiff and brittle, degradation of the shell may be occurring. A hard hat should be replaced immediately at the first sign of any of these conditions.

Hard hat suspensions should also be inspected closely for cracks, frayed straps or other signs of wear. Any suspension that is damaged must be removed from service and replaced immediately.

It is recommended that users replace the entire suspension system at least every 12 months.

Maintenance and Storage

Clean the hard hat and suspension with mild soap and water. Rinse and wipe dry. Do not use paints, solvents, chemicals, adhesives, gasoline or like substances on a hard hat. Store the hard hat away from direct sunlight.

There is currently no official standard or regulatory requirement for replacing a hard hat or suspension — only recommendations.



Vented design
helps wearers
stay cool

3M™ VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-V-R-W6-PS — white

- ▶ Comfortable suspension sits lower on head to reduce pressure points and increase security
- ▶ Optimized comfort with 3 levels of height adjustment
- ▶ Includes a replaceable, ventilated foam brow pad with cover for comfort and ventilation between the forehead and the foam
- ▶ Smooth-turning 4-point ratchet suspension system
- ▶ Lightweight protection and durability for extended comfort
- ▶ Short brim for better upward visibility
- ▶ Low profile for stability and balance
- ▶ ANSI/ISEA compliant when worn in the forward and reverse donning positions
- ▶ Meets the requirements of ANSI/ISEA Z89.1-2014 Type 1, Class C
- ▶ Meets CSA Z94.1-2015 Type I, Class C requirements

3M™ NON-VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-R-W6-PS — white

CHH-R-Y6-PS — yellow



Smooth-turning 4-point ratchet suspension system

- ▶ Comfortable suspension sits lower on head to reduce pressure points and increase security
- ▶ Optimized comfort with 3 levels of height adjustment
- ▶ Includes a replaceable, ventilated foam brow pad with cover for comfort and ventilation between the forehead and the foam
- ▶ Lightweight protection and durability for extended comfort
- ▶ Short brim for better upward visibility
- ▶ Low profile for stability and balance
- ▶ ANSI/ISEA compliant when worn in the forward and reverse donning positions
- ▶ Meets the requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E
- ▶ Meets CSA Z94.1-2015 Type 1, Class G and E requirements
- ▶ Dielectric protection up to 20,000 volts





Full brim helps protect ears and neck from UV rays

3M™ FULL-BRIM NON-VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-FB-R-W6-PS — white

- ▶ Comfortable suspension sits lower on head to reduce pressure points and increase security
- ▶ Optimized comfort with 3 levels of height adjustment
- ▶ Includes a replaceable, ventilated foam brow pad with cover for comfort and ventilation between the forehead and the foam
- ▶ Smooth-turning 4-point ratchet suspension system
- ▶ Lightweight protection and durability for extended comfort
- ▶ Low profile for stability and balance
- ▶ ANSI/ISEA compliant when worn in the forward and reverse donning positions
- ▶ Meets the requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E
- ▶ Meets CSA Z94.1-2015 Type 1, Class G and E requirements
- ▶ Dielectric protection up to 20,000 volts

3M™ NON-VENTED HARD HAT WITH PINLOCK ADJUSTMENT

CHH-P-W12 — white

CHH-P-Y12 — yellow

- ▶ Comfortable suspension sits lower on head to reduce pressure points and increase security
- ▶ Optimized comfort with 3 levels of height adjustment
- ▶ Replaceable standard brow pad
- ▶ Pinlock suspension system for a customized fit
- ▶ Lightweight protection and durability for extended comfort
- ▶ Short brim for better upward visibility
- ▶ Low profile for stability and balance
- ▶ ANSI/ISEA compliant when worn in the forward and reverse donning positions
- ▶ Meets the requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E
- ▶ Meets CSA Z94.1-2015 Type 1, Class G and E requirements
- ▶ Dielectric protection up to 20,000 volts



ORDERING INFORMATION

3M™ VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-V-R-W6-PS — white

CAT#	70#	EA./PK.	DESCRIPTION	COLOR
CHH-V-R-W6-PS	70006963261	6	Vented Hard Hat with Ratchet Adjustment	white

3M™ NON-VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-R-W6-PS — white

CHH-R-Y6-PS — yellow

CAT#	70#	EA./PK.	DESCRIPTION	COLOR
CHH-R-W6-PS	70006963279	6	Non-Vented Hard Hat with Ratchet Adjustment	white
CHH-R-Y6-PS	70006963253	6	Non-Vented Hard Hat with Ratchet Adjustment	yellow

3M™ FULL-BRIM NON-VENTED HARD HAT WITH RATCHET ADJUSTMENT

CHH-FB-R-W6-PS — white

CAT#	70#	EA./PK.	DESCRIPTION	COLOR
CHH-FB-R-W6-PS	70006963220	6	Full-Brim Non-Vented Hard Hat with Ratchet Adjustment	white

3M™ NON-VENTED HARD HAT WITH PINLOCK ADJUSTMENT

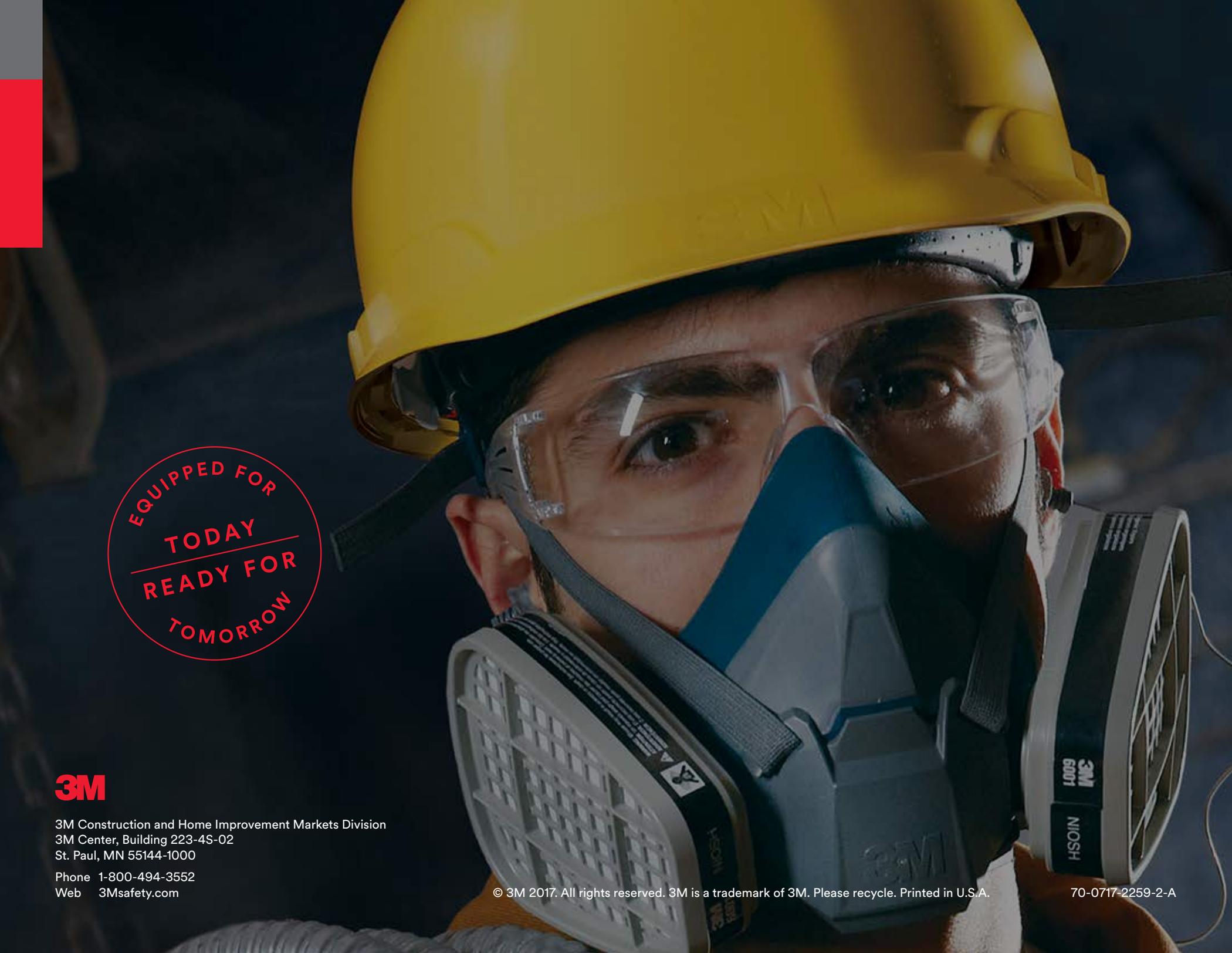
CHH-P-W12 — white

CHH-P-Y12 — yellow

CAT#	70#	EA./PK.	DESCRIPTION	COLOR
CHH-P-W12	70006945987	12	Non-Vented Hard Hat with Pinlock Adjustment	white
CHH-P-Y12	70006946043	12	Non-Vented Hard Hat with Pinlock Adjustment	yellow



SAFETY THAT PROPELS.



EQUIPPED FOR
TODAY
READY FOR
TOMORROW



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