

A worker in a high-temperature environment, wearing a silver heat-reflective protective suit, a white hard hat, and a clear face shield. The worker is holding a long-handled tool, possibly a torch or welding rod, near a large piece of machinery. The background is dark with a bright, glowing light source, likely a furnace or industrial process, creating a dramatic, high-contrast scene.

**3M** Science.  
Applied to Life.™

**When the heat  
is on, we have  
you covered.**

3M Head, Eye, Face and Hearing Protection  
for elevated temperature environments

## 3M™ Elevated Temperature Hard Hat H-700T Series

Extreme heat. In these challenging conditions, you need safety equipment that stands up to the heat, keeps your workers comfortable – and makes a tough job easier.

Engineered to withstand radiant heat loads up to 190°C (375°F), our 3M™ Elevated Temperature Hard Hat H-700T is the foundation of an integrated system of advanced personal protection equipment. The H-700T is designed specifically for elevated temperature applications ranging from metalworking and smelting to glass manufacturing.

### **More comfortable to wear – more convenient to use**

The design and materials offer lightweight protection (less than 380 g) while the use of existing head suspensions provide proven comfort, security and adjustability.

### **Built for performance and value**

H-700T hard hats are built using injection molding technology. This allows us to offer you an elevated temperature hard hat that is lighter weight, more comfortable and versatile – at a competitive price.

**Note: Not all accessories are rated to elevated temperatures.**



### Key Features and Benefits

- Meets ANSI Z89.1-2014 Type 1, G
- Helps protect the wearer from crown (top) impact
- Designed to withstand radiant heat loads up to 190°C (375°F)
- Weighs less than 380 g (0.838 lbs.) with ratchet suspension
- Secure 4-point ratchet suspension and standard brow pad
- Suspension sits lower on head to reduce pressure and increase security
- Accessory slots for ear muff attachment and faceshield attachment
- Available in white or light blue colors to accommodate workplace color coding

### Common applications:

- Metalworking, smelting and recycling
- Glass manufacturing
- Tapping
- Sampling
- Furnace work
- Casting
- Refractory maintenance
- Power plants

### Fully integrated PPE

3M Elevated Temperature Hard Hats H-700T are designed for integration with current 3M personal protective equipment for elevated temperature environments.

- Eye protection
- Face protection
- Hearing protection\*\*
- Respiratory protection
- Flame and heat covers

Accessory slots are molded in to every H-700T series hard hat for easier, secure attachment of ear muffs and faceshields.

It is the responsibility of the employer to determine if the personal protective equipment is suitable for the application based on the worksite hazard assessment, applicable standards, and environmental conditions. **Not all accessories are rated to elevated temperatures.**

\*\* Earmuffs are not rated for exposure to direct elevated temperatures.

## Integrated protection. Comfort without compromise.

3M PPE products are designed with the safety and comfort of your workers in mind. Together, these features help produce products that can form an integrated system that makes it simpler for you to help keep your workers safe on the job.

### Hard Hat and Neck Protection

#### 3M™ Flame and Heat Covers

Designed to provide additional protection from heat to the wearer and the safety helmet.

##### 3M™ Front Hard Hat Cover FC1-AL

- Streamlined design helps prevent interference with other 3M personal protection equipment during use
- Made from aluminized fabric material capable of reflecting radiant heat and withstanding sparks
- Fabric can be easily replaced when needed

##### 3M™ Molten Metal Neck Guard NC2-GR

- Designed to help protect against molten metal splash, radiant heat up to 356 °F (180 °C) and flame hazards
- Attaches to 3M and other hard hats using hook and loop fasteners on the inside of the shell
- Internal attachments allow for use with or without earmuffs attached to the hard hat

### Eye Protection

#### 3M™ HIE6 Protective Eyewear

Integrated eye protection for hard hats

- The patented two bar linkage provides full adjustability for better fit
- Attaches directly to hard hat suspension
- Retracts between hard hat shell and suspension when not in use
- Clear or Grey



### Face Protection

#### 3M™ Elevated Temperature Universal Faceshield Holder H24T

Designed for integration of face protection with 3M™ Elevated Temperature Hard Hat H-700T Series.

- Made using heat resistant 15% glass nylon material similar to the H-700T shell
- Quick change system for easy window replacement
- Linkage system is compatible with or without 3M earmuffs (**Earmuffs not rated for exposure to direct elevated temperatures**)

#### 3M™ W-Series High Heat Faceshields

Made of durable, impact-resistant polycarbonate. The faceshields mount quickly and easily to the holder system.

- Gold-coated faceshields are an excellent choice for radiant high heat environments
- 8 faceshields including tint options for task-specific requirements
- Dual-coat technology available with gold-coated faceshields provides a durable, abrasion-resistant hard coat on the outside and anti-fog coating on the inside

#### Elevated Temperature Hard Hat H-700T and accessories

It is the responsibility of the employer to determine if the personal protective equipment is suitable for the application based on the worksite hazard assessment, applicable standards, and environmental conditions. **Not all accessories are rated to elevated temperatures.**

### Hearing Protection

#### 3M™ PELTOR™ Earmuffs X Series\*\*

Integrated hearing protection

- 5 earmuff options to fit your workers' specific application
- Quick change feature for easy replacement
- Durable construction for demanding environments

**\*\*Note: Earmuffs are not rated for exposure to direct elevated temperatures.**

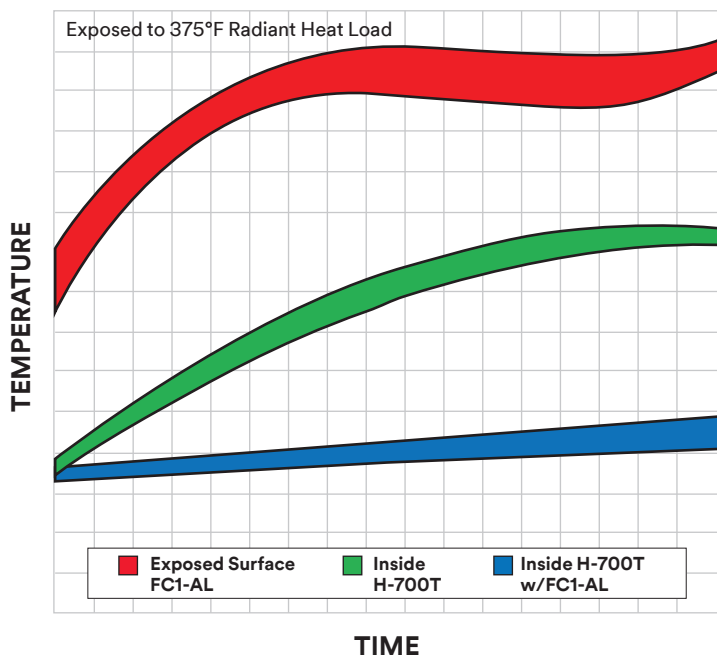


## Designed to take the heat

3M™ H-700T Series Industrial Safety Hard Hats with FC1-AL are designed to work with our high heat face shields to help you keep your cool in radiant heat environments.

The following chart demonstrates the ability of the H-700T hard hat with FC1-AL to block IR radiation.

### H-700T Temperature Profiles with FC1-AL\*



\*Results based on three samples with 95% confidence intervals using the 3M internal Vertical Radiant Panel testing. Temperatures were measured outside and inside a stationary hard hat, not while on a human subject.

When the protective equipment is exposed to a convective heating element from a distance of 10 cm (3.9 in.), the temperature rise occurring behind the equipment is lower compared to the temperatures reached outside the protection.

It is the responsibility of the employer to determine if the personal protective equipment is suitable for the application based on the worksite hazard assessment, applicable standards, and environmental conditions.

**Note: Not all accessories are rated to elevated temperatures.**





# Ordering Information

Product Number	SKU	UPC	Product Description	Quantity
<b>3M™ Elevated Temperature Hard Hat H-700T Series</b>				
H-701T	70-0716-9441-1	50051131274889	3M™ Elevated Temperature Hard Hat, White	10/case
H-704T	70-0716-7762-2	50051131276340	3M™ Elevated Temperature Hard Hat, Light Blue	10/case
<b>3M™ Elevated Temperature Hard Hat H-700T Series Accessories</b>				
FC1-AL	UU003718200	04054596085831	3M™ Elevated Temperature Aluminum Front Helmet Cover	1/case
FC1-GR	UU003718515	04054596085817	3M™ Elevated Temperature Cotton + Para aramide Front Helmet Cover, Gray	1/case
NC2-GR	70-0716-9445-2	50051131275114	3M™ Molten Metal Neck Guard	10/case
TCS1	70-0716-9444-5	50051131274933	3M™ Hard Hat Terry Cloth Sweatband, White – for use over standard brow-pad	10/case
H-700-RS4	70-0715-7806-9	10078371642119	Hard Hat Suspension	20/case
H-700S6	70-0716-1422-9	10078371654921	Hard Hat Suspension 6-Point Strap	20/case
<b>3M™ W-Series High Heat Faceshields and Holders</b>				
H24T	70-0716-9446-0	50051131275107	3M™ Elevated Temperature Universal Faceshield Holder for Hard Hats	10/case
WCP96G	70-0715-2214-1	10078371826021	3M™ Total Performance Gold-Coated Faceshield	10/case
WCP96BG	70-0715-2215-8	10078371826038	3M™ Total Performance Gold-Coated Faceshield with Medium Green Tint	10/case
WCP96CG	70-0715-2216-6	10078371826045	3M™ Total Performance Gold-Coated Faceshield with Dark Green Tint	10/case
WP96AL	70-0715-1341-3	10078371825048	3M™ Total Performance Aluminized Faceshield	10/case
WP96BAL	70-0715-1344-7	10078371825185	3M™ Total Performance Aluminized Faceshield with Medium Green Tint	10/case
WP96CAL	70-0715-1343-9	10078371825093	3M™ Total Performance Aluminized Faceshield with Dark Green Tint	10/case
W96M	70-0715-1342-1	10078371825062	3M™ Steel Mesh Faceshield Screen	10/case
W96MW	70-0715-2193-7	10078371825116	3M™ Steel Mesh Faceshield Screen with Clear Eyeshield	10/case
<b>3M™ HIE6 Protective Eyewear</b>				
HIE601AF	70-0716-7383-7	10078371667433	3M™ HIE6 Protective Eyewear, Clear Anti-Fog Lens	20/case
HIE603AF	70-0716-7385-2	10078371667457	3M™ HIE6 Protective Eyewear, Gray Anti-Fog Lens	20/case
<b>3M™ PELTOR™ X-Series Earmuffs</b> <b>NOTE: Earmuffs are not rated for exposure to direct elevated temperatures.</b>				
X1P3E	XA007707889	10093045937285	Hard Hat-Attached Earmuff NRR 21 dB*	10/case
X2P3E	XA007707897	10093045937292	Hard Hat-Attached Earmuff NRR 24 dB*	10/case
X3P3E	XA007707905	10093045937308	Hard Hat-Attached Earmuff NRR 25 dB*	10/case
X4P3E	XA007707913	10093045937315	Hard Hat-Attached Earmuff NRR 25 dB*	10/case
X5P3E	XA007707921	10093045937322	Hard Hat-Attached Earmuff NRR 31 dB*	10/case

Noise Reduction Rating (NRR)

\* 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. It is recommended that the NRR be reduced by 50% to better estimate typical workplace protection.



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For more information:

In U.S.:

Technical Assistance 1-800-243-4630  
 Customer Service 1-800-328-1667  
[3M.com/workersafety](http://3M.com/workersafety)

In Canada:

Technical Assistance 1-800-267-4414  
 Customer Care 1-800-364-3577  
[3M.ca/Safety](http://3M.ca/Safety)

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