

A welder is shown in a high-temperature industrial setting, wearing a silver heat-reflective protective suit and a helmet with a face shield. The welder is holding a welding torch, and bright orange sparks are visible on the left side of the frame. The background is dark with some industrial structures.

**3M** Science.  
Applied to Life.™

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

3M™ Head and Face Protection for elevated  
temperature environments



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

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 elevated temperature hard hat is the foundation of an integrated system of advanced personal protection equipment. The 3M™ SecureFit™ Elevated Temperature Hard Hat is designed specifically for elevated temperature applications ranging from metalworking and smelting to glass manufacturing.

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

Enjoy lightweight, less than 380 g, and comfortable protection. The H-700T-SF features exclusive 3M™ SecureFit™ Pressure Diffusion Technology suspension system which helps create a personalized fit and reduces the pressure on the forehead up to 30% compared to legacy 3M™ H-Series Hard Hat suspensions. H-700T-SF also includes a washable and replaceable sweatband with moisture-wicking material made for tough work environments.

### Built for performance and value

3M™ SecureFit™ Elevated Temperature Hard Hats are constructed from materials and technologies that offer you an elevated temperature product that is light weight, comfortable, and versatile.

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

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

## Key Features and Benefits

- Meets ANSI /ISEA Z89.1-2014 Type 1, Class 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.)
- 4-point SecureFit™ Pressure Diffusion Technology suspension system and premium moisture-wicking sweatband (washable and replaceable)
- Customize your fit with multiple levels of height and head-shape adjustments
- Accessory slots for earmuff attachment and faceshield attachment
- Works well with cap-attached 3M hearing protection and communication\*\* products, a variety of 3M faceshields and other accessories
- Available in white or light blue

## Common applications:

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

## Integrated PPE

3M™ SecureFit™ Elevated Temperature Hard Hat Series products are designed to work with other 3M™ personal protective equipment.

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

Accessory slots are molded in to every H-700T-SF 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.**



### 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™ Elevated Temperature Aluminum Front Helmet 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-OR

- 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™ V9 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, grey tint or amber





## Integrated PPE

### Face Protection

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

Designed for integration of face protection with 3M™ SecureFit™ Elevated Temperature Hard Hat Series.

- Made using heat resistant 15% glass nylon material similar to the H-700T-SF 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
- Dual-coat technology available with gold or aluminium coated faceshields provide a durable, abrasion-resistant hard coat on the outside and anti-fog coating on the inside

#### 3M™ SecureFit™ Elevated Temperature Hard Hat H-700T-SF 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
- Replaceable ear cushions and foam liners
- Durable construction for demanding environments

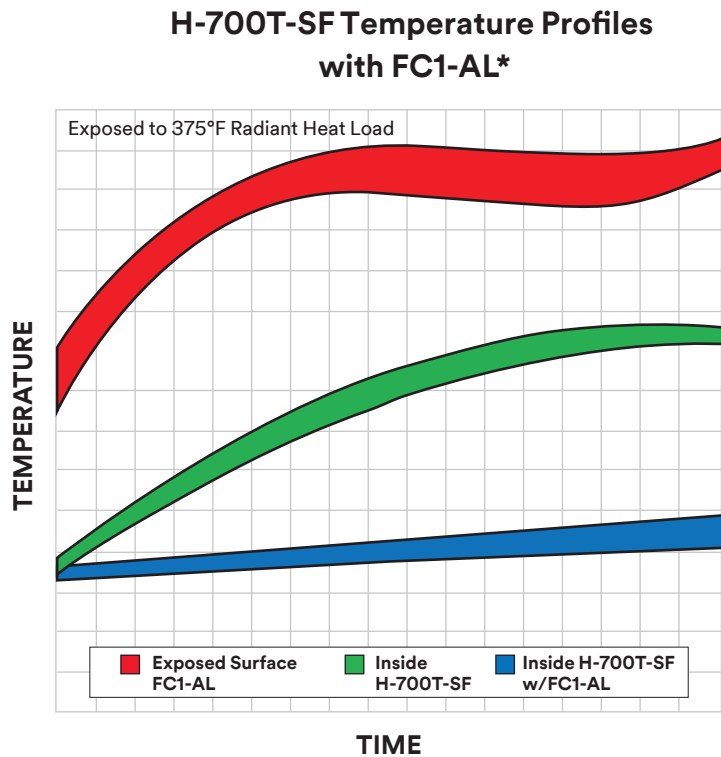
\*\* Eyewear and earmuffs are not rated for exposure to direct elevated temperatures. Eyewear should be worn behind high heat rated faceshields. Earmuff operating temperature is -20 C (-4 F) to 50 C (122 F).



## Designed to take the heat

3M™ SecureFit™ Elevated Temperature Hard Hat H-700T-SF Series products with FC1-AL are designed to work with our high heat faceshields to help you keep your cool in radiant heat environments.

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



\*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

SAP I.D.	Product I.D.	Product Description	BU/ UOM
<b>3M™ SecureFit™ Elevated Temperature Hard Hat H-700T-SF Series</b>			
7100245287	H-701T-SF	3M™ SecureFit™ Elevated Temperature Hard Hat H-701T-SF, White	10/cs
7100245296	H-704T-SF	3M™ SecureFit™ Elevated Temperature Hard Hat H-704T-SF, Light Blue	10/cs
<b>3M™ Elevated Temperature Hard Hat H-700T-SF Series Accessories</b>			
7100082486	FC1-AL	3M™ Elevated Temperature Aluminum Front Helmet Cover, FC1-AL, Silver	60/cs
7100082485	FC1-GR	3M™ Elevated Temperature Cotton + Para aramide Front Helmet Cover, FC1-GR, Gray	60/cs
7100296470	NC2-OR	3M™ Molten Metal Neck Guard NC2-OR, Orange	10/cs
7100213827	TCS1	3M™ Hard Hat Terry Cloth Sweatband, White, For Use Over Standard Browpad	10/cs
7100259127	SFH-700-RS4	3M™ SecureFit™ Hard Hat Suspension Replacement SFH-700-RS4, 4-point Ratchet	20/cs
7000053150	H-700-S6	Hard Hat Suspension 6-Point Strap	20/cs
<b>3M™ Elevated Temperature Face Protection Products</b>			
7100247652	SFH-700-BP	3M™ SecureFit™ Hard Hat Replacement Brow-Pad SFH-700-BP	20/cs
7100113761	H24T	3M™ Elevated Temperature Universal Faceshield Holder for Hard Hats	10/cs
7000127238	82602-00000	3M™ W-Series Polycarbonate Faceshield WCP96G, Gold-Coated Clear, 82602-00000, Molded	10/cs
7000144939	82603-00000	3M™ W-Series Polycarbonate Faceshield WCP96BG, Gold-Coated Medium Green, 82603-00000, Molded	10/cs
7000127239	82604-00000	3M™ W-Series Polycarbonate Faceshield WCP96CG, Gold-Coated Dark Green, 82604-00000, Molded	10/cs
7000052705	82504-00000	3M™ W-Series Polycarbonate Faceshield WP96AL, Aluminium-Coated Clear, 82504-00000, Molded	10/cs
7000052706	82518-00000	3M™ W-Series Polycarbonate Faceshield WP96BAL, Aluminium-Coated Medium Green, 82518-00000, Molded	10/cs
7000127169	82509-00000	3M™ W-Series Polycarbonate Faceshield WP96CAL, Aluminium-Coated Dark Green, 82509-00000, Molded	10/cs
7000127168	82506-00000	3M™ W-Series Faceshield W96M, Steel Mesh, 82506-00000, Molded	10/cs
7000127231	82511-00000	3M™ W-Series Faceshield W96MW, Steel Mesh with Clear Eyeshield, 82511-00000, Molded	10/cs
<b>3M™ V9 Protective Eyewear</b> NOTE: Eyewear are not rated for exposure to direct elevated temperatures. Eyewear should be worn behind a high heat rated faceshield.			
7100101916	V901AF	3M™ Integrated Protective Eyewear Series V901AF, Clear Anti-fog Lens	20/cs
7100270351	V902AF	3M™ Integrated Protective Eyewear Series V902AF, Gray Anti-fog Lens	20/cs
7100205235	V903AF	3M™ Integrated Protective Eyewear V903AF Amber Anti-fog Lens	20/cs
<b>3M™ PELTOR™ X-Series Earmuffs</b> NOTE: Earmuffs operating temperature is -20 C (-4 F) to 50 C (122 F).			
7000104075	X1P3E	Hard Hat-Attached Earmuff NRR 21 dB/CSA Class B*	10/cs
7000104076	X2P3E	Hard Hat-Attached Earmuff NRR 24 dB/CSA Class B*	10/cs
7000104077	X3P3E	Hard Hat-Attached Earmuff NRR 25 dB/CSA Class B*	10/cs
7000104078	X4P3E	Hard Hat-Attached Earmuff NRR 25 dB/CSA Class B*	10/cs
7000104079	X5P3E	Hard Hat-Attached Earmuff NRR 31 dB/CSA Class B*	10/cs

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.



**Personal Safety Division**  
Building 223-4S-02  
St. Paul, MN 55144-1000

For more information:  
In U.S.:  
Technical Assistance  
Customer Service

1-800-243-4630  
1-800-328-1667  
3M.com/workersafety

In Canada:  
Technical Assistance  
Customer Care

1-800-267-4414  
1-800-364-3577  
3M.ca/Safety

3M PSD products are occupational use only.

3M™ and all other trademarks used herein are trademarks of 3M™ Company, used under license in Canada. Please recycle. Printed in USA. © 3M 2024. All rights reserved. 70-0716-7192-2 Rev. 4