

Look who's getting HOT in a 275° environment after 5 minutes!



When you compare thermal protection, some helmets can be such **HOT HEADS**.

You might not realize this, but the NFPA rates every part of your gear for heat protection...except your helmet. At Cairns, we have never settled for just meeting baseline standards. This is why thermal impact caps are standard on every helmet we make. A thermal impact cap provides vital protection for you every time you enter a burning structure.

We believe that firefighters are safer because of the standard features and options that can be found only on a Cairns fire helmet - like shell release and ballistic grade Kevlar®.

So, the next time someone tells you that a thermal impact cap is not needed for protection, tell him his advice is as empty as his helmet.

Temperatures listed above represent those recorded on the headform surface or, quite simply, the temperature your head would be exposed to under these conditions. Burns are a function of time and temperature.

* Reference: Woodson, Human Factors Design Handbook



See for yourself why some helmet manufacturers are such **HOT HEADS.**

Cairns recently re-released test data that we thought would be very informative to the fire industry. **When we found manufacturers selling helmets without thermal protection, we thought it was our duty to share this data with everyone involved in the fire service.**

In recent years, specifications for protective clothing have been upgraded, allowing firefighters to operate at higher temperatures. NFPA has thermal protection requirements for every part of your ensemble, except for helmets.

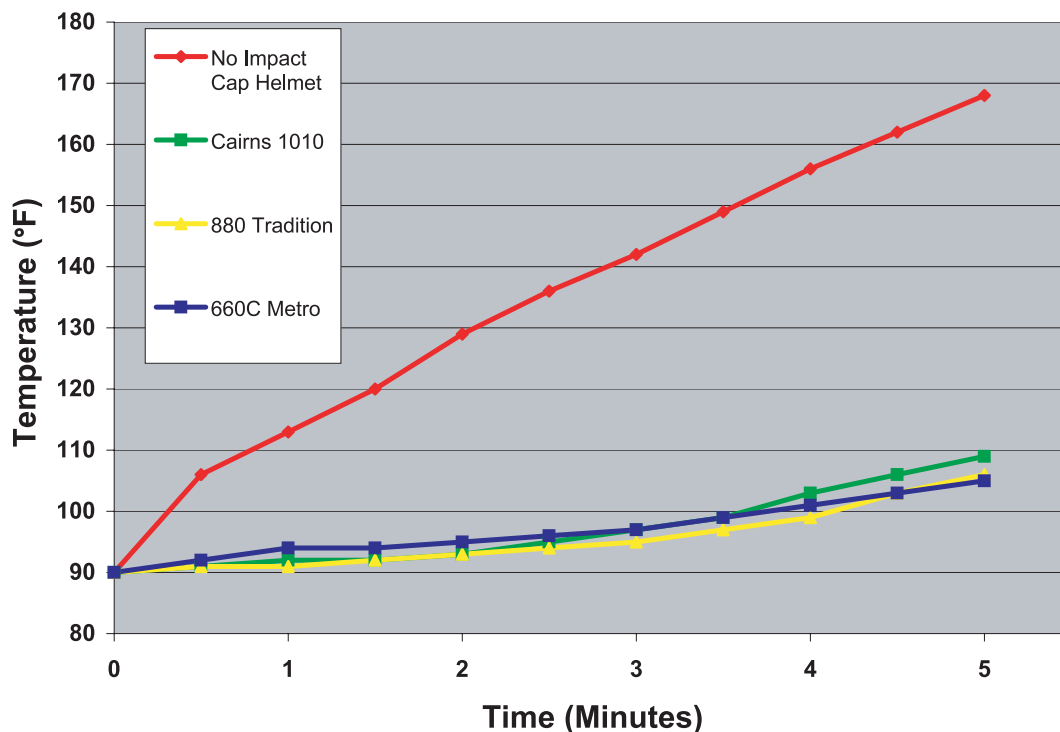
In the late 1970s, we recognized a need for increased thermal protection and we added it to our helmets. Since that time, we have always measured the thermal protection offered by different helmets.

Fire helmet manufacturers offering helmets without thermal protection will lead you to believe that you should not be concerned with more insulation in your fire helmet than in your turnouts – but shouldn't you be?

The threat of receiving a skin burn is serious, but so are other forms of heat-related illness. At elevated temperatures, you are also susceptible to heat stroke, heat cramps, heat syncope and heat exhaustion.

Firefighting means that you inherently work in a hot environment, therefore shouldn't you demand product that helps you stay cool? We do, that is why you will find the extra thermal protection of an impact cap in every Cairns Fire Helmet that we make.

Temperature at Headform Surface



Results: Results from an independent test lab show an extreme difference in thermal protection between our helmet and helmets without a thermal impact cap. The lab results are shown in the table on the left.

Conclusion: With today's technology, there is no acceptable reason to use a helmet in the fire service without proper thermal protection. Clearly, a fire helmet with a thermal impact cap provides increased thermal protection in elevated temperatures than a fire helmet without an impact cap.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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