

**DATA SHEET**  
**HOT SHIELD ULTIMATE BANDANNA**  
**MODEL UB-V2**

The Hot Shield Ultimate Bandanna Model UB-V2 is designed for and primarily used by the wildland firefighter. The Ultimate Bandanna is a nearly 100% fire proof garment (bandanna) designed for high heat environments, including but not limited to: wildland firefighting operations, foundry/furnace/molten metal work, etc. The Ultimate Bandanna is not a respirator, nor is it designed to accommodate a filter. The Ultimate Bandanna provides the user with a low level of respiratory relief from large airborne particulate, embers, ash, etc through a double layer of “mesh” fabric but does not provide any vapor protection. The mask has an adjustable, integral, non-exposed nose pinch bar for comfort & performance fit. CarbonX is a proprietary material tested to withstand extreme temperatures, far exceeding the Radiant Protective Performance requirements of NFPA #1977 Standards for Wildland PPE (see charts on website). The interior materials also absorb perspiration, adding to overall user comfort. A cinch cord with sliding nylon spring lock creates air pocket for better fit, comfort and performance. Fastens behind the neck (Velcro). 3M Scotchlite Reflective Trim for nighttime visibility. An integral neck hang strap allows bandanna to hang loosely around neck/chest until needed. One size fits all, machine washable.

**KEY FEATURES**

- ★Patented CarbonX materials inside and out
- ★Designed by firefighters for any high heat environment, especially wildland firefighting operations
- ★Very easy to breathe through at ANY exertion level
- ★No filter to replace
- ★Very lightweight....only 3.6oz / 100.8 grams
- ★Comfortable
- ★Hangs loose around your neck until you need it (integral CarbonX hang strap)
- ★One size fits all
- ★3M Reflective Trim for nighttime visibility
- ★Wash and dry in any temperature and detergent

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## UB-V2 SPECIFICATIONS

<b>Name:</b>	Ultimate Bandanna
<b>Model Number:</b>	UB-V2
<b>Weight:</b>	3.6 oz / 100.8 grams
<b>Sizing:</b>	One size fits all (hook & loop fasteners behind neck)
<b>User Benefits:</b>	1) Thermal protection (radiant heat or direct flame) of major portions of the face and neck. 2) Reduction of inhalation of airborne particulate by means of a screening mesh.
<b>Description:</b>	A heat resistant safety garment for the face & neck designed specifically for wildland firefighting. Can be classified as an interface component. Mask can hang loosely around neck until ready for immediate use. Mask uses hook and loop fasteners to secure around back of neck of wearer. Nighttime visibility enhanced by use of 3M Scotchlite® reflective trim.
<b>Main Users:</b>	Firefighters and other workers that are subject to direct flame, radiant heat, smoke and airborne particulate hazards in an outdoor environment and where use of a self-contained breathing apparatus is either impractical or impossible.
<b>Limitations:</b>	NOT A RESPIRATOR. Will not block gases, vapors or significant or fine airborne particulate. Not a respirator.
<b>Coverage:</b>	Most areas of the face and neck. Leaves ears exposed.
<b>Product Testing:</b>	Mask itself subjectively tested only. CarbonX materials have been objectively tested and exceed thermal protective performance minimum requirements for NFPA Standard #1977 Wildland Protective Clothing and Equipment, Editions 2008, 2011 & 2016.
<b>Care:</b>	Machine or hand wash mild soap, air dry.
<b>Warranty:</b>	One year materials and workmanship
<b>Sold by:</b>	Only authorized dealers; see our website for a list.

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## **FREQUENTLY ASKED QUESTIONS OF THE HOT SHIELD MODEL UB-V2 ULTIMATE BANDANNA**

### **Q: WHAT IS THE ULTIMATE BANDANNA?**

A: The Ultimate Bandanna is the worlds first nearly completely fire proof bandanna. The UB-V2 was designed by firefighters to protect themselves against red hot embers & radiant heat experienced during brush fires.

### **Q: HOW DOES THE HOT SHIELD FACE MASKS & HOUSINGS PROTECT ME?**

A: In general, our products greatly reduce the risk of burns to your face by the use of highly thermally resistant materials combined with our patented design. The outer shell of every Hot Shield mask, shroud or respirator housing is made of super tough & extreme fire resistant CarbonX fabric. CarbonX is an inherently non-flammable fabric that will not burn, melt, drip, ignite, shrink, or char when exposed to direct flame or extreme heat; are highly resistant to molten metal splash, flammable liquids, and certain chemicals. The CarbonX thermal protective properties will not wash out or wear away. CarbonX accomplishes this with less weight than traditional PPE materials.

When exposed to intense heat or flame, the CarbonX fiber blend carbonizes and then expands, eliminating any oxygen content within the fabric, tested to achieve an astonishing Limit of Oxygen rating of 55. CarbonX products combine an extreme level of protection with maximum comfort. They are lightweight, soft to the touch, and flexible, wearing much like cotton. They also breathe well, wick away moisture, and dry quickly, enhancing the wearer's comfort and productivity and reducing the potential for fatigue and heat stress.

CarbonX was initially developed by a race car driver after he suffered severe burns and is used extensively in that industry in racing suits & gloves. Hot Shield USA has been using CarbonX exclusively since November 2001.

Specifically, the Ultimate Bandana has 2 layers of CarbonX for burn protection and provides a very minimal amount of respiratory relief by the physical barriers of twin layers of "mesh" fabric.

### **Q: WHY WOULD I NEED THIS MUCH PROTECTION?**

A: Some argue that this much protection gives a firefighter a "false sense of security". We respectfully disagree. Our opinion is that your training should tell you when to go in or leave your environment. Tools and equipment should be the highest protection level possible when it comes to delicate human skin tissue, which burns at a mere 116 degrees F and is the arguable the worst injury a human can suffer and still survive. Many firefighters have been overrun by fast moving fires, sustaining severe burns to the face, neck and ears. The PPE most firefighters have used for face & neck protection for years simply did not do enough to protect the skin. The choice of poor PPE often results in inadequate air exchange, 1st, 2nd and 3rd degree burns and inhalation of of smoke & ash particulate. The face is especially vulnerable and exposed. Should you suffer a facial burn, you cannot easily cover it up, disguise the injury or look the same as you did before the incident. Prevention is better. That is our opinion. Our personal experience in the California Firestorms of 1993 spurred us to invent something to protect our own skin. The Hot Shield lineup serves to reduce these risks in a major way.

**Q: HAS THE HOT SHIELD UB-V2 ULTIMATE BANDANA BEEN INDEPENDENTLY TESTED?**

A: CarbonX component fabrics have been tested to NFPA standards and proven to far exceed the minimum requirements set forth in both NFPA Standard #1977 Wildland Protective Clothing and Equipment, Editions 2011 & 2016, Section 8.2, Radiant Protective Performance (RPP), Section 8.3 Flame Resistance and 8.4 Heat & Thermal Shrinkage Resistance. Also, CarbonX test data can be found on the website [www.carbonx.com](http://www.carbonx.com)

**Q: IS THE HOT SHIELD UB-V2 COMPLIANT WITH NFPA STANDARDS?**

A: To date, NFPA Standard #1977 Wildland Protective Clothing and Equipment does not contain a category for “face masks”. Until then, it is our understanding and those of everyone else we have consulted on this issue, until this is established, no face mask has a standard to be tested to. Consequently, firefighters, users, workers, employers are free to choose whatever face mask they wish to protect themselves or their employees from the hazards of heat and flame.

However it is important to know all the facets surrounding “wildland face masks”, “wildland respirators” and applicable regulatory standards in order to obtain a true & clear understanding of heretofore very confusing issue. We offer the following logical, linear numbered items in order to help you understand the entire issue. Then you can make an informed decision for yourself, your department and/or your employees.

#1- NFPA Standard #1977 does not contain a specific category for a “face mask”. It does contain a category for a “face/neck shroud”. Face masks and face/neck shrouds are not the same and although can overlap, are not the same piece of equipment nor are they designed to be the same.

#2- Until a “face mask” category is written into NFPA Standard #1977, no product or face mask has a standard or bench mark to follow and/or be tested to. This includes the Hot Shield UB-V2 Ultimate Bandanna and any other face mask available on the market.

#3- The Hot Shield UB-V2 Ultimate Bandanna is a face mask, not a respirator.

#4- All Hot Shield masks, including the UB-V2, far exceed the *thermal protection performance requirement minimums* of any & all categories listed in NFPA Standard #1977 (pants, shirts, etc), as well as NFPA Standard #1971 and #2112.

#5- The thermal protection performance minimums in NFPA Standard #1977 are set low; even FR cotton will “meet or exceed” the Standard.

#6- Human skin will begin to burn at approximately at a mere 116 degrees F. If a chosen piece of protective clothing meets the minimum thermal protective performance, but cannot adequately prevent the inside temperature from rising beyond 116 degree F for more than 1 second of time, your skin will suffer a burn. Logic dictates our skin must be adequately protected from the workplace hazard that may be encountered.

#7- NFPA #1984 “Standard on Respirators for Wildland Fire-Fighting Operations” does have specific and detailed requirements for a “wildland respirator”. However, it is our understanding that no manufacturer has been able to create a wildland respirator that can meet or exceed this Standard. In essence, a Standard was created in absence of an actual device. Fire departments are free to choose whether to adopt Standard #1984 or not.

**Q: IS THE ULTIMATE BANDANNA A RESPIRATOR?**

A: No. A minimal level of respiratory relief is achieved through use of a double layer of CarbonX knit mesh to block large airborne ash particles.

**Q: DOES THE ULTIMATE BANDANNA PROTECT ME FROM SUPERHEATED AIR?**

A: No. Only a positive pressure breathing apparatus can do that!

**Q: IS THE ULTIMATE BANDANNA COMPATIBLE WITH ALL FIRE HELMETS?**

A: Yes. The UB-V2 does not interfere with any helmet.

**Q: ARE THE HOT SHIELDS COMPATIBLE WITH GOGGLES?**

A: Low profile goggles with some type of foam work best. Remember, nearly every goggle wants to occupy the little bit of “real estate” spanning the bridge of your nose up to your forehead. We happen to like the “Wildcat” goggle. Any type of face mask will need to share this area and “anchor” itself to the bridge of your nose. We did invent a novel replacement goggle strap that helps out with this. Our Blazer QuikConnect Goggle Strap replaces your existing continuous elastic band goggle strap with one that has a Fas-Tek buckle (like the buckle on any backpack), so that you can put your goggles on without removing your helmet or mask. You can keep your goggles in a separate pouch or in your Web Case (we make it!) so that they stay clean and are ready for use at a moments notice. Several manufacturers have copied our design and we are pleased by the compliment!

**Q: WHAT LENGTH OF SERVICE CAN I EXPECT TO SEE?**

A: With normal firefighter abuse/use, you should not find replacement issues for at least 5-10 years. There is not much to break or tear. We warranty all of our products for one full year. Most of what we see in repairs/returns is simply caused by people not removing the filter before washing, abusing the mask by storing hard tools (pliers, etc) in the same pocket as the mask; which is why we invented the Web Case; to keep your mask clean and easy to access).

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