










Since implementing a Face Covering Policy as part of Mortenson’s response to the COVID-19 pandemic, craft and non-craft team members across the Company have experienced the common challenge of exacerbated fogging of safety glasses and/or prescription glasses. This menu of best practices has been compiled based on feedback from various operating groups and shared, in attempt to offer options that have proven most effective at curbing the issue of fogging eyewear. These are the tips, alternatives, and products that have reportedly worked best under some of the most extreme working conditions. However, just as there is no one style of safety glasses or one size of respirator that works for everyone, there is no singular solution that will solve the fogging problem for all.

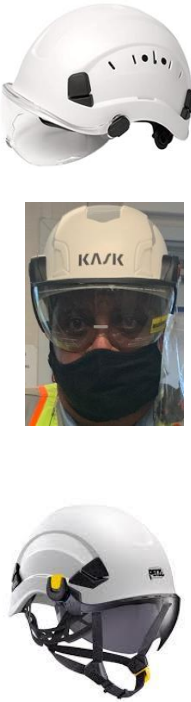
Leaders are encouraged to make multiple options available, and individual team members are encouraged to try a variety of those options until they can find the solution that works best for them. We will continue to update this menu of options as we become aware of new practices or products that prove to be as effective. Anytime there is a suggestion to use new PPE all team members are encouraged to first consult their operating group safety director or reach out to the HQ Health and Safety business service group to review the appropriateness of new products for the intended application.

**Cloth Face Covering Tips**


<p><b>Ensure the face covering provides a formed fit over the bridge of the nose.</b>                  Add an adhesive malleable metal strip to any cloth face covering that doesn’t have a formed fit. (Available from Amazon)</p> <ul style="list-style-type: none"> <li>• A paper clip or other similar malleable wire can be inserted in the top seam of a homemade face covering, that will function similar to a metal strip.</li> </ul>		<p><b>Purchase Info and ProductLink</b></p>  <p><a href="#"><u>Flexible Metal Nose Strip with Adhesive Back</u></a></p>
<p><b>Apply Kinesiology tape to your nose bridge, under the face covering.</b></p> <ul style="list-style-type: none"> <li>• Cut a thin strip of Kinesiology tape to match the length of your face from eye to eye. Place the sticky side of the tape over the bridge of the nose to help absorb moisture from breath. Also helps keep the face covering from slipping down.</li> <li>• RockTape is a brand that is being used by some groups, but any similar product should work.  <b>NOTE: Adhesive is similar to Band Aids and may be irritable for some.</b> Available in Standard or Low stick.</li> </ul>	 <p><a href="#"><u>YouTube Link - Tips for Application &amp; Removal Considerations</u></a></p>	<p><b>Purchase Info &amp; Product Link</b></p>  <p><a href="#"><u>RockTape Kinesiology Tape</u></a></p>

<p><b>Wear the face covering high enough on the nose so eyewear lenses rest on the face covering.</b></p> <ul style="list-style-type: none"> <li>• Helps prevent breath from directly contacting and fogging lenses.</li> <li>• Kinesiology tape may be helpful to keep face covering in this position.</li> </ul>		
<p><b>Apply an anti-fog product to eyewear lenses.</b> A variety of products have been tried and proven more effective and longer lasting for fogging prevention while wearing a face covering than the lens cleaning solutions typically supplied on our projects.</p> <ul style="list-style-type: none"> <li>• Shown are products currently in use on our projects and recommended.</li> <li>• Apply products with eyewear removed and allow to dry before putting back on to avoid contact with eyes.</li> <li>• All available at Amazon.com.</li> </ul> <p><b>Baby shampoo or dish soap has been reported an effective alternative to the recommended products above.</b> This is a widely used hack by divers to prevent mask fogging.</p> <ul style="list-style-type: none"> <li>• Place a dime-sized amount of any baby shampoo or dish soap on the inside of the clean eyewear lenses and rub the shampoo around the lens with your finger to cover the entire surface.</li> <li>• Lightly rinse the lenses with water until the appearance of the shampoo/soap is gone and allow to air dry to create a barrier to prevent condensation on your glasses.</li> <li>• Rinse and reapply as needed.</li> </ul> <p>Click to watch <a href="#">YouTube Demo</a> Video</p>	<p><b>Recommended Products</b></p>  <p>Cat Crap Anti-fog Lens Balm or Spray</p>  <p>Frog Spit Anti-fog Wipes or Spray</p>  <p>Spit Anti-fog Gel or Spray</p>  <p>Radians Lens Cleaning Wipes with Anti-fog</p>	<p><b>Purchase Info and Product Links</b></p> <p>All products available at Amazon.com.</p> <p><a href="#">Cat Crap</a></p> <p><a href="#">Frog Spit</a></p> <p><a href="#">Spit</a></p> <p><a href="#">Radians Anti-fog Towelettes - Amazon</a> Also available on iProcurement</p>

**Alternative PPE**

<p><b>Kask Helmet fitted with a visor in place of safety glasses.</b></p> <ul style="list-style-type: none"> <li>Some team members have opted for this combination as an alternative to safety glasses, with success in minimizing or eliminating fogging while wearing a face covering.</li> <li>While effective, this option comes at a premium.</li> </ul> <p>NOTE: Be sure to consult with your operating group safety director when considering this alternative PPE option.</p>		<p><b><u>Purchase Info and Product Links</u></b></p> <p><a href="#">Kask Zenith Helmet</a></p> <p><a href="#">Visor for Kask Zenith</a></p> <p><i>Links provided are representative for product model and product number. Online pricing reflected is likely not representative of negotiated pricing available through Supply Chain. It is recommended to consult your group's Supply Chain buyer for negotiated pricing from preferred vendors.</i></p> <p><a href="#">Petzl Vertex Climbing Helmet - from Dakota Riggers</a> Also available on iProcurement</p> <p><a href="#">Petzl Vizir - from Dakota Riggers</a></p>
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**Preferred/Recommended Safety Eyewear Products**

<p><b>Safety Glasses with the Best Anti-Fog Performance</b></p> <p>While many different styles of safety glasses are currently available on iProcurement, these products have been recommended for enhanced and longer lasting anti fog performance.</p> <ul style="list-style-type: none"> <li>These products have enhanced anti fog coatings and treatments applied in the</li> </ul>	<p><b>3M Solus 1000 &amp; 2000 Series</b></p> <p>Recommended by Minneapolis &amp; Power Delivery Solutions groups.</p> 	<p><b><u>Purchase Info and Product Links</u></b></p> <p><a href="#">3M Solus 1000 Series</a></p> <p><a href="#">3M Solus 2000 Series</a></p> <p>These 3M products are currently available on iProcurement</p>
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manufacturing process vs. standard safety glasses.

- To maximize or enhance anti-fogging effectiveness, these eyewear products can be used in conjunction with the cloth face covering tips outlined above.

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**Hexarmor VS250, VS300S, & MX250**

Recommended by groups operating in the upper Midwest, Southwest, and Western regions.

VS250



VS300



MX250



**ORR XP750 Foam-lined Safety Glasses**

Recommended by Sports & Entertainment; Allegiant Stadium in Las Vegas.



**Ergodyne Skullerz Dagr AF 52033**

Recommended by the Denver Office.



See attachment for Anti-Fog Coating options and application match from Hexarmor.



TruShield Coating.pdf

[Hexarmor VS250](#)






[Hexarmor VS300](#)

[Hexarmor MX250](#)

[ORR XP750](#)

[Ergodyne – Skullers Dagr AF](#)

Choose Clear or Smoke lens options with Fog-Off for maximum anti-fog performance.

	<p><b>Honeywell S4200X Protégé Anti-Fog</b> Recommended by the Phoenix Office.</p>  <p><b>Honeywell S4201HS</b> Recommended by the Phoenix Office</p> 	<p><a href="#">Honeywell S4200X</a></p> <p><a href="#">Honeywell S4201HS</a></p>
<p>The following products were recommended by various industry peer companies.</p>	<p><b>Brass Knuckle – Grasshopper Foam-Lined Safety Glasses with N-Fog coating</b></p>  <p><b>Pyramex H2MAX – Foam-Lined Safety Glasses</b></p>  <p><b>Bolle – Baxter Anti-Fog Foam-lined Safety Glasses</b></p> 	<p><b><u>Purchase Info and Product Links</u></b></p> <p><a href="#">Grasshopper w/ N-Fog – BKDST-1010n</a></p> <p><a href="#">Pyramex H2MAX</a></p> <p><a href="#">Bolle Foam-lined Anti Fog</a></p>

