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# 3M™ Hood BE-10BR Butyl Rubber Inspection Guidance

November 21, 2016

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This inspection guidance document is intended as a supplement to the 3M Customer communication dated November 21, 2016 regarding the inspection of BE-10BR hoods.

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# BE-10BR Hood Fabric Inspection

Examine the condition of the outer butyl fabric, outer and inner shroud and face seal. Check that there are no cracks, rips, holes, tears or other damage.

Fabric is intact, without any signs of damage

*Chemical resistance and respiratory protection is intact*



Tear in fabric

Chemical resistance and respiratory protection may be compromised

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

# BE-10BR Hood Face Seal Elastic Inspection

Examine the condition of the face seal.  
Check that there is no peeling or breaking down of the elastic.  
Stretch several 2-3 inch sections of the face seal and verify that it recovers to its original length.

Elastic being stretched, with recovery to original length



***Respiratory protection is intact***



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance.  
If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

## BE-10BR Hood Nape Seal Elastic Inspection

Examine the condition of the nape seal (seal at base of the skull).  
Check that there are no holes, tears or other damage.  
Stretch several 2-3 inch sections of the nape seal elastic and verify that it recovers to its original length.

Elastic being stretched, with recovery to original length

*Respiratory protection is intact*



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance.  
If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

# BE-10BR Hood Suspension Inspection

Examine the head suspension for cracks, tears or other damage. Stretch several 2-3 in sections of the suspension elastic and verify that it recovers to its original length.

Suspension completely intact, including stitching

- Note: Webbing could be multiple colors



*Respiratory protection is intact*

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Breathing Tube Connection Inspection

Examine the exterior and interior of the breathing tube connection point (near the nape seal).

Check that there are no cracks, rips, dents, holes, tears or other damage.

Attempt to rotate the circular breathing tube connection interface and verify that it does not move freely.

The interior and exterior of the breathing tube connection is intact with no signs of damage

***Respiratory protection is intact***

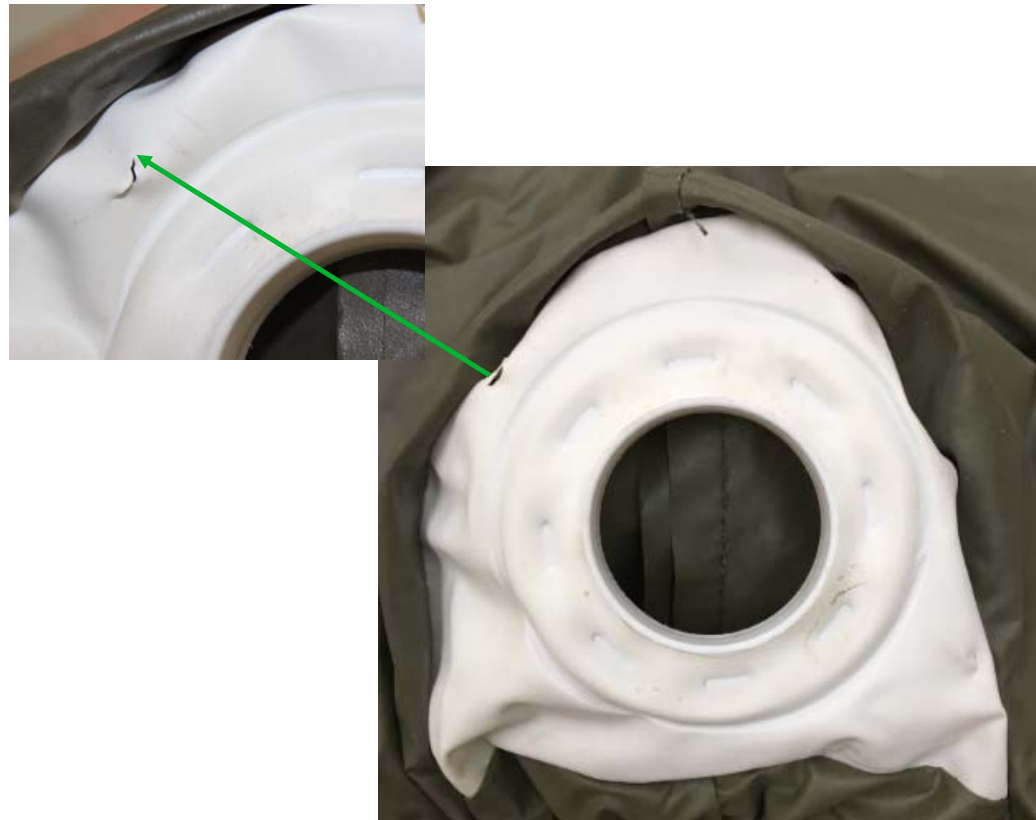
Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance.

If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Breathing Tube Connection Inspection

Vinyl on breathing tube connection is cracked



*Respiratory protection may be compromised*

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Breathing Tube Connection Inspection

Circular breathing tube connection interface can be rotated freely

*Respiratory protection may be compromised*



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## BE-10BR Hood Visor Inspection

Look for creases, scratches, or other visual distortions that make it difficult to see through the visor.

Examine the visor for cracks or holes that permit contaminated air to enter the hood.

Visor is intact with no signs of damage

*Chemical resistance and respiratory protection are intact*



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# BE-10BR Hood Visor Inspection

Crack in upper plastic of visor

*Crack in upper plastic may lead to crack in visor or pose a hazard to the wearer*



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

# BE-10BR Hood Visor Inspection

Cut/hole in visor

*Chemical resistance and respiratory protection may be compromised*



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

# BE-10BR Hood Visor Inspection

Crease in visor

- May be remedied by using RBE-FIH hood insert to help reshape visor



*If crease left unresolved, could affect fit of hood and lead to crack in visor*



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# BE-10BR Hood Visor Inspection

Discoloration of visor



*Discoloration may affect the wearers ability to see through the visor*

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Seam Inspection

Examine the luting (seal) on the seams to ensure that it is not peeling, cracked, flaking or otherwise damaged. Inspect closely to verify that the seam, including the threads, are covered.

Luting completely covering the seam with no cracks, flaking or other signs of damage

*Chemical resistance is intact*

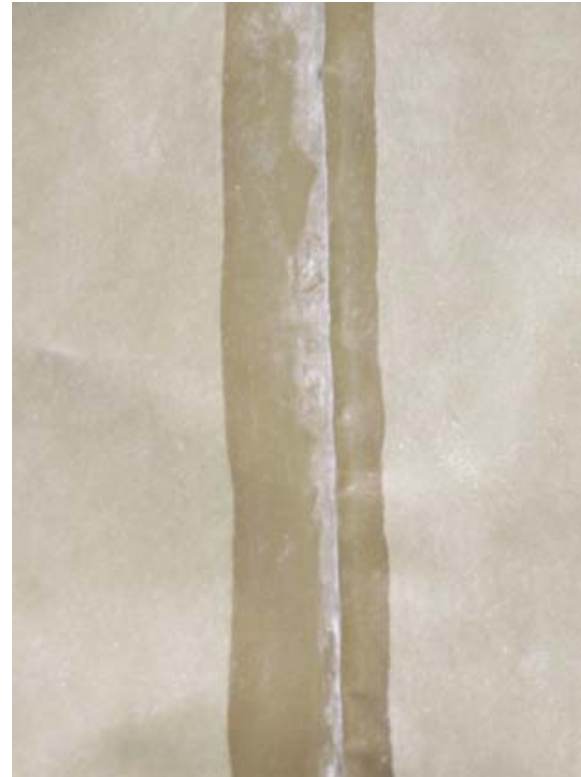
Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Seam Inspection

Powder is visible in the seam, but luting is intact

*Respiratory protection is intact*



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.

# BE-10BR Hood Seam Inspection

Luting near seam is missing, but seam is still covered

*Chemical resistance is intact*

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Seam Inspection

Outline of stitches can be seen, but are covered by luting

*Chemical resistance is intact*



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# BE-10BR Hood Seam Inspection

Air bubbles are present in the luting

*Chemical resistance is intact*

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## BE-10BR Hood Seam Inspection

Luting near hood-to-visor seam is missing, but seam is still covered, and stitching is not visible

*Chemical resistance is intact*



Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection call 3M Technical Service at 1-800-243-4630.



# BE-10BR Hood Seam Inspection

Luting no longer covers the hood-to-visor seam, leaving visible stitching

*Chemical resistance may be compromised*



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# BE-10BR Hood Seam Inspection

Luting has been pulled apart and is flaking off, leaving stitching visible

*Chemical resistance may be compromised*



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# BE-10BR Hood Seam Inspection

Luting is cracked, leaving stitching visible

*Chemical resistance may be compromised*

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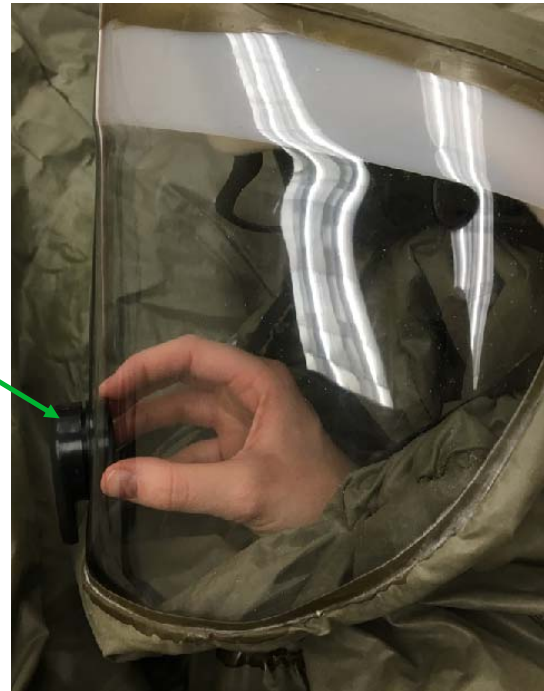


# BE-10BR Hood Valve Inspection

Verify the valve holder is tight in the visor by turning the retaining ring on the back of the valve assembly

Valve holder is secure to the visor

*Respiratory protection is intact*



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# BE-10BR Hood Inspection Summary

Remove hoods from service if signs of degradation are found in accordance with the provided inspection guidance. If you have questions on inspection please call 3M Technical Service at 1-800-243-4630.