

NFPA 1971 – Proposed 2018 Edition
Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting

TIA Log No.: 1277 corrected

Reference: Various sections

Comment Closing Date: July 13, 2017

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1. *Revise 7.13.6 to read as follows:*

7.13.6 Hoods with elastic or manually adjustable face openings shall be individually tested for resistance to shrinkage as specified in Section 8.24, Cleaning Shrinkage Resistance Test, and shall slide freely over the top half of the hood measuring device while in the relaxed state, shall not show any gaps when placed on the lower half of the hood measuring device, and shall not have the measurements made from the top of the hood to the marks at the back and both sides of the hood exhibit shrinkage of more than 5 percent.

2. *Add new 7.13.6.1 to read as follows:*

7.13.6.1 Hoods designed to interface with a specific SCBA facepiece shall be individually tested for resistance to shrinkage as specified in Section 8.24, Cleaning Shrinkage Resistance Test, and the overlap of the outer edge of the hood and the specific SCBA facepiece shall not shrink more than 5 percent. The measurements from the top of the hood to the marks at the back and both sides of the hood shall not exhibit shrinkage of more than 5 percent.

3. *Revise 8.6.16.4 to read as follows:*

8.6.16.4 Specimen face openings with elastic or manually adjustable face openings shall be placed over a hood measuring device as shown in Figure 8.6.16.4. Specimen face openings in the relaxed state shall slide freely over the top half of the device where the circumference measures 45.6 cm \pm 0.6 cm (18.0 in. \pm 0.25 in.). Specimen face openings shall then be placed around the lower half of the device where the circumference measures 54.5 cm \pm 0.6 cm (21.5 in. \pm 0.25 in.). Specimens shall then be visually inspected for gaps between the hood and the measuring device surface.

4. *Add new 8.6.16.4.1 to read as follows:*

8.6.16.4.1 Specimen hoods with SCBA facepiece openings shall be measured as specified in 8.47.5.1 through 8.47.5.3.

5. *Revise 8.6.16.11 to read as follows:*

8.6.16.11 Observations of the following for specimens with elastic or manually adjustable face openings shall be recorded and reported:

- (1) The ability of the face opening to slide freely over the top half of the hood measuring device
- (2) Gaps between the hood face opening and the bottom half of the hood measuring device before and after heat exposure

6. *Add new 8.6.16.11.1 to read as follows:*

8.6.16.11.1 Specimen hoods with SCBA facepiece openings shall be measured as specified in 8.47.5.1 through 8.47.5.3.

7. *Revise 8.6.16.12 to read as follows:*

8.6.16.12 The percent shrinkage of each of the three dimensions from the top of the hood to the marks along the basic plane shall be individually calculated, recorded, and reported. The percent shrinkage of the face opening overlap on specimens with specific SCBA facepiece openings shall be individually calculated, recorded, and reported.

8. *Revise 8.6.16.13 to read as follows:*

8.6.16.13 The average percent shrinkage of the three dimensions from the top of the hood to the marks along the basic plane for all specimens shall be calculated, recorded, and reported. The average percent shrinkage of the face opening overlap for each specimen with specific SCBA facepiece openings shall be individually calculated, recorded, and reported.

9. *Revise 8.6.16.14 to read as follows:*

8.6.16.14 Pass or fail performance for specimens with elastic or manually adjustable face openings shall be based on the face opening being able to slide freely in the relaxed state over the top half of the hood measuring device and any observations of gaps between the hood face opening and the hood measuring device. Pass or fail performance for specimens designed to interface with a specific SCBA facepiece shall be based on the average percent shrinkage of the face opening overlap for each specimen. ~~Pass or fail performance shall also be based on the average percent shrinkage of the three dimensions from the top of the hood to the marks along the basic plane for each specimen. One or more hood specimens failing this test shall constitute failing performance.~~

10. *Add new 8.6.16.15 to read as follows:*

8.6.16.15 Pass or fail performance shall also be based on the average percent shrinkage of the three dimensions from the top of the hood to the marks along the basic plane for each specimen. One or more hood specimens failing this test shall constitute failing performance.

Substantiation:

Items 1. and 2. : When the new face opening measuring device was added during first draft, the requirements for SCBA specific hoods were removed. It was missed that this occurred during 2nd draft and there are currently no requirements for testing these types of hoods for Cleaning Shrinkage Resistance test.

Items 3. thru 10.: When the new face opening measuring device was added during first draft, the requirements for SCBA specific hoods were removed. It was missed that this occurred during 2nd draft and there are currently no requirements for testing these types of hoods for Heat and Thermal Shrinkage Resistance test.

Emergency Nature. The NFPA Standard contains an error or an omission that was overlooked during a regular revision process.

Items 1. and 2.: Allowing the certification of these types of hoods without testing for cleaning shrinkage leaves a substantial gap in requirements, allowing potentially dangerous materials to be used in hoods that are designated to be worn with a specific SCBA.

Items 3. thru 10.: Allowing the certification of these types of hoods without testing for heat and thermal shrinkage leaves a substantial gap in requirements, allowing potentially dangerous materials to be used in hoods that are designated to be worn with a specific SCBA.

Anyone may submit a comment by the closing date indicated above. To submit a comment, please identify the number of the TIA and forward to the [Secretary, Standards Council](#), 1 Batterymarch Park, Quincy, MA 02169-7471.