

Specification for NFPA 1977-2016 Compliant 3M™ Scotchlite™ Reflective Material Series 5600 Fire Coat Comfort Trim

Scope

The following specification outlines the fluorescent and retroreflective trim requirements for NFPA 1977, 2016 Edition certified fire coats to enhance visibility while working in or adjacent to fire fighting situations, moving traffic, heavy equipment, work zones or other endangering elements.

Description

This specification is for the trim requirements per NFPA 1977, 2016 Edition to be worn during day and night work. The complete garment 831-332-3296 shall be in compliance with NFPA 1977, 2016 Edition. The garment must be manufactured using NFPA 1977, 2016 Edition certified component materials and meet all NFPA 1977, 2016 Edition design requirements. Component materials in this specification shall be separately certified to NFPA 1977, 2016 Edition by an ISO Guide 65 accredited independent laboratory.

Material

- Reflective and fluorescent material shall be 3M™ Scotchlite™ Reflective Material Series 5600 Fire Coat Comfort Trim.
- The reflective surface is composed of wide angle, exposed retroreflective lenses integrally centered on a fluorescent background color bonded to a heat-activated adhesive and is comprised of reflective patterned segments on a clear plastic liner.
- When tested in accordance with NFPA 1977, 2016 Edition, Section 8.4 per ISO 17493 for five minutes at 260°C, the material shall meet all requirements and shall maintain a minimum R_A of 350 or greater when measured at 0.2° observation angle/5° entrance angle per the procedure defined in ASTM E808-01 and E809-08.
- When tested in accordance with NFPA 1977, 2016 Edition, Section 8.1.3, Convective Heat Exposure Test, the material shall maintain a minimum R_A of 350 or greater when measured as described above.
- When washed 50 cycles in accordance with ISO-6330 Method 6N (60°C home wash), the retroreflective material shall maintain a minimum R_A of 100 or greater when measured as described above.

Certificate

Third party NFPA 1977, 2016 Edition certificate of compliance for the trim shall be kept on file at the manufacturer. The certificate shall be supplied to {company name, contact and address}.