

QBH01 Silver FR Lt. Industrial Wash Fabric

Description

Q-Brand QBH01 Silver Light Industrial Wash Sew-On Fabric is composed of wide-angle, exposed, retroreflective lenses bonded to a durable FR cloth backing for use on flame resistant high-visibility garments.



Retroreflective Performance

When sewn onto a garment, QBH01 appears bright white to a driver when viewed in vehicle headlights. It is designed to remain highly reflective even when viewed across wider entrance angles.

QBH01 complies with CSA-Z96 Level 2, ANSI Level 2 and EN 471:2003 Class 2.

Certifications

The coefficient of retroreflection (RA, in cd/lux/m²) for QBH01 has been measured as:

Product Number	Daytime Color	Nighttime Color	Initial Average R _A ¹	Minimum R _A ²	Wash Cycles ³
QBH01	Silver	White	500	330	50

¹Measured by +5.0° entrance and 0.2° observation angles as per EN 471:2003

²CSA Z96, ANSI/ISEA 107 and EN 471 minimum coefficient of retroreflection for Level 2 retroreflective material

³ISO 6330 Method 2A at 60°C (140°F) and R_A ≥ 100 cd/lux/m²

NOTE: CSA-Z96-09 LEVEL FR minimum R_A is 65

Physical Performance	Test Method, Certification
Flame Resistance	ASTM D 6413, 4" char length, 2 seconds after flame NFPA 1971-2013 Sec 8.2 ; NFPA 1951-2013 Sec 8.4; NFPA 1977-2011
Heat and Thermal Shrinkage Resistance	ISO 17493, 5 minutes @ 260°C (500°F) NFPA 1971-2013 Sec 8.6; NFPA 1951-2013 Sec 8.5; NFPA 1977-2011; CAN/CGSB 155.1-2001
Convective Heat R _A ≥ 100	10 minutes @ 140°C (285°F) NFPA 1971-2013 Sec 8.45; NFPA 1977-2011
Retroreflectivity: (Initial) R _A ≥ 100	NFPA 1971-2013 Sec 8.45; NFPA 1977-2011
Fluorescence Cap Y ≥ 70	NFPA 1971-2013 Sec 8.45; NFPA 1977-2011
Reflectivity During Rainfall: R _A ≥ 100	NFPA 1971-2013 Sec 8.45; NFPA 1977-2011

Performance

While use of Q Brand QBH01 will enhance visibility, no reflective material can guarantee absolute visibility, particularly in adverse weather conditions or unusually harsh wear conditions. Performance will vary depending upon actual use, exposure conditions, and proper cleaning/maintenance. Users should test reflective material to satisfy conformance to their own requirements.

Application Instructions:

Sewing: Sew in place using a lockstitch with no more than 12 stitches per inch (2.54 cm), and not less than 5/64" (2 mm) from the edge of the reflective fabric. For best results, apply to light and medium weight fabrics.


Cutting: Die-cutting is recommended, although fabric can also be hand-cut or guillotined.

Printing: Screen print using Perfectos Ink DE5

Care and Maintenance Instructions


Q Brand QBH01 may be damaged if cared for improperly. Avoid extreme harsh washing or dry cleaning conditions to maintain optimal performance. Actual life of QBH01 depends of the wash care and wears condition. Care label recommendations:


- Do not apply high alkaline stain removing chemicals (e.g.: paste, salt or heavy duty product)
- Do not use solvent detergents or micro emulsions
- Do not use any bleaching agents
- Do not over-dry. The surface temperature of the reflective should not exceed 120°C

Wash:  Machine wash hot, 60°C (140 °F), PH neutral detergents are generally recommended for washing.

Bleach:  Do not Bleach

Dry:  Tumble dry low

Iron:  Use cool iron, 110 °C (230 °F), Do not use a steam iron

Dry-clean:  Normal cycle: Max solvent temperature: 30°C
Max drying temperature: 70°C
Max drying time: 15 minutes
Max program time: 60 minutes



When handling the products, blemishing can occur if the front surface of the product has direct contact from hands during application and is then exposed to hot and humid conditions greater than 27 °C (80 °F) and greater than 70% relative humidity for a period of weeks. These blemishes do not affect performance of the product. The use of white cotton gloves is recommended in high heat and high humidity environments.

Product Specifications

Roll Width	Width Tolerance	Standard Roll Length
50.8mm	± 1mm	100m
1070mm	± 3mm	50m

Order and Product Information

To order Q Brand Reflective Materials, contact your local Bon-Mar Safety Division representative, or call direct at 1-800-363-2993, or by email at safety@bon-mar.com

Storage and Shelf Life

In order to preserve performance, store in a cool, dry area and use within one year after date of receipt. Store rolls in original shipping cartons. Return partially used rolls to the carton or suspend horizontally through the core. Cut pieces should be stored flat.

Disclaimer

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes.

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