



TECHNICAL DATA SHEET

BE SEEN, BE SAFER

CSR-1303-4 Reflective Fabric Trim

DESCRIPTION

Chinastars reflective fabric CSR-1303-4 is intended to use on light to medium weight fabrics, such as vests or waistcoats. It is composed of micro-glass beads bonded to a polyester/cotton blend fabric backing. It reflects light directly to the original light source and enhances the visibility of anyone who wears it.

REFLECTIVE PERFORMANCE

The reflective coefficient (R , in cd/lux/m^2) of CSR-1303-4 can meet the requirements in international standards like EN ISO 20471, ANSI/ISEA 107, CSA-Z96-15, AS/NZS 1906.

Observation Angle	Entrance Angle	Minimum Reflectivity	Typical Reflectivity
5°	12'	330	>330

WASH PERFORMANCE

Product No.	Home Wash Cycles ¹
CSR-1303-4	>25

¹ISO 6330 Method 2A at 60 °C (140 °F) and $R_A \geq 100 \text{ cd/lux/m}^2$ (home wash)

COLOR

Product No.	Daytime Color	Reflected Color
CSR-1303-4	Grey	White

PHYSICAL PERFORMANCE

After the following each exposure testing, CS-1303-4 R_A values are above 100 cd/lux/m^2 at +5.0° entrance angle and 0.2° observation angle.

Physical Performance	Test Method
Abrasion	EN 530 Method 2, 5000 cycles
Flexing	ISO 7854 Method A, 7500 cycles
Cold Fold	ISO 4675, -20°C (-4°F)
Temperature Cycle	12 hours @ 50°C (122°F); 20 hours @ -30°C (-22°F)
Wash	ISO 6330 Method 2A @ 60°C (140°F) number of cycles listed
Wet Reflectivity	ANSI 107-2015 Appendix A; EN 20471:2013 Annex C

CERTIFICATION

CSR-1303-4 TC reflective fabric trim meet the requirements in below listed standards for high visibility garments.

Product No.	EN ISO 20471:2013	ANSI/ISEA 107:2015	CSA-Z96-15	AS/NZS1906
CSR-1303-4	✓	✓	✓	✓

APPLICATION INSTRUCTIONS

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

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.

Printing: Inks can be printed on the surface of Chinastars reflective fabrics. Before printing, all inks shall be tested to ensure acceptable adhesion. Wipe the surface lightly with a soft cloth dampened with isopropyl alcohol may help ink adhesion.

CARE AND MAINTENANCE INSTRUCTIONS

Actual life of CSR-1303-4 reflective fabric trim depends on cleaning method and wear conditions.



Do not presoak
Machine wash warm,
60°C (150°F)



Tumble
dry low



Cool iron, Do
not exceed
150°C (300°F)



Do not bleach

Some suggestions for extending the life of reflective fabric on safety clothing:

1. When do machine wash, you may use a mild detergent, but No Bleach or Fabric Softener!
2. Try to avoid wash the reflective products with your work jeans or any clothing with rough fabric or edges. The microscopic glass beads on the reflective fabric can be worn off by rough texture.
3. Try to line dry your reflective products. If you choose to machine dry, try to remove the product immediately. The added heat can damage the reflective fabric.

HANDLING PRECAUTIONS

Most of our reflective fabric contains aluminum layer, and sweat /oil/ water stains may occur if the surface of the product has direct contact with hands during application and is then exposed to hot and humid conditions. Even though these blemishes won't affect performance of the product, we strongly recommend handling the reflective fabric with gloves and keeping them in the environment of below 26.7 °C (80 °F) and lowering than 70% relative humidity.



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