



# TECHNICAL DATA SHEET

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## CSR-1303-NMY Yellow Flame Resistant Fabric

### DESCRIPTION

Chinastars reflective fabric CSR-1303-NMY is composed of retro reflective micro-glass beads layer and fluorescent yellow stratum laminated onto a flame resistant durable aramid 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<sup>2</sup>) of CSR-1303-NMY yellow flame resistant fabric:

Observation Angle	Entrance Angle	Minimum Reflectivity	Typical Reflectivity
5°	12'	330	>10

### COLOR

Product No.	Daytime Color
CSR-1303-NMY	Yellow

### PHYSICAL PERFORMANCE

After the following each exposure testing, CS-1303-NMY R<sub>A</sub> values are above 100 cd/lux/m<sup>2</sup> 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
Dry-Clean	ISO 3175 Method 9.1 number of cycles listed
Wet Reflectivity	ANSI 107-2015 Appendix A; EN 20471:2013 Annex C
Flame Resistance	ASTM D6413 char length ≤ 4 inches; after flame <2 seconds

## CERTIFICATION

CSR-1303-NMY Yellow flame resistant reflective fabric meet the requirements in below listed standards for high visibility garments.

Product No.	<b>EN469</b> <b>EN ISO 14116</b> <b>EN ISO 11612</b> <b>NFPA 701</b> <b>ASTM F1506</b>
CSR 1303-NMY	✓

## 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-NMY yellow 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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