

## TECHNICAL DATA SHEET

### DOUBLE SIDE STRETCH REFLECTIVE FABRIC CSR-1303-9

#### DESCRIPTION

Chinastars CSR-1303-9 double side stretch reflective fabric is composed of wide angle exposed micro glass beads bonded to both sides of a stretch fabric. It is intended to be used as reflective accessories on safety garments or active wear. It reflects light directly to the original light source and enhances the visibility of anyone who wears it.

#### REFLECTIVE PERFORMANC

The reflective coefficient (R, in cd/lux/m<sup>2</sup>) of CSR-1303-9 can meet the requirements in international standards like EN ISO 20471, ANSI/ISEA 107, CSA-Z96-22, AS/NZS 1906.

#### SPECIFICATION

Fabric Backing	Composition	Daytime Color	Weight	Width	Reflectivity <sup>1</sup>	Home Wash cycles <sup>2</sup>
Spandex fabric (86% polyester + 14% spandex)	Reflective layer= 40% Bonding layer =40% Backing=20%	Silver	720±25g/ m <sup>2</sup>	140cm	R>420	>25cycles

<sup>1</sup> Measured on new product at +5.0° entrance and 0.2° observation angles.

<sup>2</sup> ISO 6330 Method 6N at 60 °C (140 °F) and RA ≥ 100 cd/lux/m<sup>2</sup>(home wash)

#### PHYSICAL PERFORMANCE

After the following each exposure testing according to EN20471 and ANSI107, Reflective values are above 100 cd/lux/m<sup>2</sup> at 5.0° A entrance angle and 0.2° observation angle.

Physical Properties	Value(cd/lux/m <sup>2</sup> ) Retroreflection Coeff. (5°,12')
After: Abrasion (EN 530 Method 2)	>100
Flexing (EN ISO 7854)	>100
Folding at -20°C (ISO 4675)	>100
Temperature variation (12h at 50°C, 20h at -30°C)	>100
Influence to rainfall (EN 20471 Annex C; ANSI 107 Appendix A)	>100
25 water washings, 60°C (ISO6330:6N)	>100

## REGULATORY COMPLIANCES

CSR-1303-9 double side stretch reflective fabric meet the requirements in below listed standards for reflective material for high visibility clothing.

Product No.	EN ISO 20471:2013	ANSI/ISEA 107:2020	CSA-Z96-22	AS/NZS1906	Oeko Tex 100
CSR-1303-9	✓	✓	✓	✓	✓

## CARE AND MAINTENANCE INSTRUCTIONS

Actual life of reflective fabric depends on cleaning method and wear conditions.



Do not presoak  
Machine wash warm,  
60°C (140°F)



Tumble  
dry low



Cool iron, Do  
not exceed  
120°C(248°F)



Do not bleach



Do not  
dry-clean

Some suggestions for extending the life of reflective fabric:

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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