



CHINASTARS

REFLECTIVE MATERIAL

TECHNICAL DATA SHEET

BE SEEN, BE SAFER

STRETCH REFLECTIVE FABRIC CSR-1303-8N

DESCRIPTION

Chinastars CSR-1303-8N stretch reflective fabric is composed of wide angle exposed micro glass beads bonded to a stretch fabric. It is intended to sew on stretchable fabric or used for main fabric on active wear where good elasticity and flexibility is required. 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) of CSR-1303-8N can meet the requirements in international standards like EN ISO 20471, ANSI/ISEA 107, CSA-Z96-15, AS/NZS 1906.

SPECIFICATION

| Fabric Backing | Composition | Daytime Color | Weight | Width | Reflectivity ¹ | Home Wash cycles ² |
|---|--|---------------|----------------------------|-------|---------------------------|-------------------------------|
| Spandex fabric (86% polyester + 14% spandex) | Reflective layer= 30% Bonding layer =30% Backing=40% | Silver | 470±30g/ m ² | 140cm | R>420 | >50cycles |

¹ Measured on new product at +5.0° entrance and 0.2° observation angles.

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

PHYSICAL PERFORMANCE

After the following each exposure testing according to EN20471 and ANSI107, Reflective values are above 100 cd/lux/m² at +5.0° A entrance angle and 0.2° observation angle.

| Physical Properties | Value(cd/lux/m ²) 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 |
| 50 water washings, 60°C (ISO6330:2A) | >100 |

REGULATORY COMPLIANCES

CSR-1303-8N 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-Z96-15 | AS/NZS1906 | Oeko Tex 100 (Class I) |
|-------------|-------------------|--------------------|------------|------------|------------------------|
| CSR-1303-8N | ✓ | ✓ | ✓ | ✓ | ✓ |

CARE AND MAINTENANCE INSTRUCTIONS

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



Do not presoak
Machine wash warm,
40°C (105°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.



ZHEJIANG CHINASTARS NEW MATERIALS GROUP CO., LTD

Office: No.98 Shimin Street, Jianggan District,
Hangzhou, China, 310016
Tel: +86-571-88155512
Fax: +86-571-88156171
Website: www.chinareflective.com
Email: info@chinastars.com.cn

Hangzhou Factory:
Jingshan Town,
Yuhang district,
Hangzhou, China

Huzhou Factory:
Southern Industrial
Park, Changxing
county, Huzhou, China

BE SEEN , BE SAFER