For over 15 years Chinastars has been providing safety solutions to worldwide companies and has become a major leader in the China safety industry by manufacturing high quality safety clothing and reflective fabric.

Chinastars provides a full range of safety clothing at excellent quality and competitive price. Including safety vests, reflective jackets, reflective rainwear, safety T-shirts, sweatshirts and reflective coveralls etc. to enhance the visibility for workers, police, firefighters, cyclists or pedestrians in low light conditions.

Reflective tape, as the key material, plays a decisive role in the service time and quality of safety clothing. Chinastars is also the leading reflective tape manufacturer in China. Products include various reflective fabrics, reflective heat transfer vinyls, reflective PVC tapes, reflective pipings etc.

Our products are certified to meet the major international standards, and have been exported to more than 70 countries. We are proud to have a diverse portfolio of satisfied clients on a global scale, including distributors, OEM/ODM and end users. We grow and develop with our customers, and aiming to bring confidence to each customer using or selling our products.

For more information, please visit our website or contact us.

www.chinareflective.com
info@chinastars.com.cn
WHY CHOOSE CHINASTARS?

There are many safety clothing manufacturers in the world, but fewer can offer you the quality and price as we do. We provide unparalleled safety solutions based on our 15-plus years of export experience and innovation. Making sure your requirements are met on time and to the highest quality is our top priority!

- Leading manufacturer of safety clothing and key material reflective tape, better quality control & best possible pricing.
- Export to over 70 countries, keep a full understanding of industry tendency worldwide.
- Products certified to meet Oeko-Tex 100, EN20471, ANSI107, AS/NZS1906, AS/NZS4602, CSA-Z96 etc.
- Mature and efficient supply chain and QC system that have been running for over a decade.
- Superior customer services, professional sales team to offer the most appropriate and cost-effective solutions.
- Professional design team to provide excellent ODM services to worldwide clients.
- Innovative developments to offer new reflective tapes and unique designs.

SAFETY VEST
SAFETY T-SHIRT
SAFETY POLO SHIRT
SAFETY SWEATSHIRT
REFLECTIVE RAINCOAT
REFLECTIVE JACKET
REFLECTIVE COVERALL
REFLECTIVE ACCESSORIES
OEM/ODM SERVICE
UNDERSTANDING

EN ISO 20471:2013
European Standard for High visibility Clothing & Accessories

EN 20471 imposes requirements on visible workwear for employees in high-risk areas. The employees will be visible and safe at night, during the day, and from all angles.

There are three classes which are related to risk assessment and are defined by the minimum areas of background fluorescent and retro-reflective material.

CLASS 2 performance is of intermediate level. It requires a minimum of 0.50m² of background material and 0.13m² of retro-reflective material.

CSV-018
Sizes: M-4XL
EN20471 Class 2, Solid Tricot, 2" Silver Reflective Tape, Hook and Loop Front, Fluorescent Lime / Orange.

CSV-097
One Size
EN20471 Class 2, Solid Tricot, 2" Silver Reflective Tape, Elastic Straps and Velcro Side Fastening, Fluorescent Lime / Orange.

CSV-111
Sizes: M-4XL
EN20471 & ANSI107 Class 2, Solid Tricot, 2" Silver Reflective Tape, Hook and Loop Front, Fluorescent Lime / Orange.

CSV-001
Sizes: M-4XL
EN20471 & ANSI107 Class 2, Solid Tricot, 2" Silver Reflective Tape, Hook and Loop Front Closure, Fluorescent Lime / Orange.
EN20471 & ANSI107 Class 2, Solid Tricot, 2" Silver Reflective Tape, Zipper Front, 5 Pockets, Yellow & Royal Blue, Yellow & Red, Orange & Royal Blue, Yellow & Dark Blue.

CSV-113 Sizes: M-4XL
EN20471 & ANSI107 Class 2, Solid Tricot, 2" Silver Reflective Tape, Zipper Front, 5 Pockets, Yellow & Royal Blue, Yellow & Red, Orange & Royal Blue, Yellow & Dark Blue.

CSV-112 Sizes: M-4XL
EN20471 & ANSI107 Class 2, Fluorescent Lime / Orange.

CSV-002 Sizes: M-4XL
EN20471 & ANSI107 Class 2, Solid Tricot, 2" Silver Reflective Tape, Zipper Front, 5 Pockets, Fluorescent Lime / Orange.

CSV-004 Sizes: M-4XL
EN20471 & ANSI107 Class 2, Fluorescent Yellow & Dark Blue, Fluorescent Orange & Dark Blue.

UNDERSTANDING

ANSI/ISEA 107-2015
American National Standard for High-Visibility Safety Apparel & Accessories

ANSI 107-2015 standard includes a “Type” structure that keeps off-road (“Type O”), roadway (“Type R”), and public safety (“Type P”) garments separated by application and work environment. The types are further broken down into classes 1, 2 or 3. Three classes help the user to choose the proper garments based on expected work environment risks.

TYPE R (Roadway use) garments are for occupational workers who are exposed to roadway traffic and who work in an environment with moving equipment/vehicles.

CLASS 2 garments are of intermediate level, for workers who will be exposed to traffic with speeds in excess of 25 mph. It requires a minimum of 775 in² (smallest size 540 in²) of background material and 201 in² of retro reflective or combined performance material.

CLASS 3 garments provide the highest level of safety, for workers who will be exposed to high speed traffic or reduced sight distances. It requires a minimum of 1240 in² (smallest size 1000 in²) of background material and 310 in² of retro reflective or combined performance material.
**SAFETY VEST | ANSI107**

**CSV-021** Sizes: M-4XL  
ANSI107 Class 2, Mesh, 2" Silver Reflective Tape, Hook and Loop Front, Fluorescent Lime / Orange.

**CSV-016** Sizes: M-4XL  
ANSI107 Class 2, Zipper Front, Fluorescent Lime / Orange.

**CSV-114** Sizes: M-4XL  
ANSI107 Class 2, Mesh, 2" Silver Reflective Tape, Hook and Loop Front, Fluorescent Lime / Orange.

**CSV-116** Sizes: M-4XL  
ANSI107 Class 2, Zipper Front, Fluorescent Lime / Orange.

**CSV-117** Sizes: M-4XL  
ANSI107 Class 2, Mesh, 2" Silver Reflective Tape, 5-point Breakaway, Hook and Loop Front, Fluorescent Lime & Orange.

**CSV-118** Sizes: M-4XL  
ANSI107 Class 2, Solid Front, Mesh Back, 2" Silver Reflective Tape, Zipper Front, 2 Tab Holders, 4 Out Pockets, 3 Inside Pockets, Fluorescent Lime / Orange.

**CSV-119** Sizes: M-4XL  
ANSI107 Class 2, Solid Front, Mesh Back, 4" Orange/Yellow & 2" Silver Reflective Tape, Zipper Front, 2 Tab Holders, 4 Out Pockets, 3 Inside Pockets, Fluorescent Lime / Orange.

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UNDERSTANDING

ANSI/ISEA 107-2015
American National Standard for High-Visibility Safety Apparel and Accessories

TYPE O, CLASS 1 garments provide the minimum visibility to differentiate the wear from non-complex work environments where struck-by hazards will not be approaching at roadway speeds. It requires a minimum of 217 in² of background material and 155 in² of retro reflective or combined performance material.

CSV-120 Sizes: M-4XL
ANSI107 Class 2, Solid Front, Mesh Back, 4" Orange/Yellow & 2" Silver Reflective Tape, Zipper Front, 2 Tab Holders, 4 Chest Pockets, 2 Inside Pockets, Adjustable Hook and Loop Straps, Fluorescent Lime / Orange.

CSV-121 Sizes: M-4XL
ANSI107 Class 2, 5-point Breakaway, Fluorescent Lime / Orange.

CSV-126 Sizes: M-4XL
ANSI107 Class 3, Mesh, 2" Silver Reflective Tape, Zipper Front, 1 Chest Pocket, 2 Inside Pockets, Fluorescent Lime / Orange.

CSV-127 Sizes: M-4XL
ANSI107 Class 3, Mesh, 4" Orange/Yellow & 2" Silver Reflective Tape, Zipper Front, 4 Pockets, Fluorescent Lime / Orange.
SAFETY VEST | CSA Z96

UNDERSTANDING

CSA Z96-15

Canadian Standard for High Visibility Safety Apparel

CSA Z96-15 describes the requirements for high visibility apparel for Canadian workers to be seen by vehicle operators, especially in low-light conditions or darkness. CSA lists three classes of garments based on body coverage provided.

CLASS 2 apparel has full coverage of the upper torso (front, back, sides and over the shoulders). Stripes/bands shall be composed of retro-reflective or combined performance materials, and are to be displayed to ensure 360° visibility.

CLASS 3 apparel provides the greatest body coverage and visibility. Apparel meets the same requirements as Class 2 with the addition of bands around both arms and legs.

CSV-124 Sizes: M-4XL

CSA-Z96 Class 2, Solid Tricot, 2" Silver Reflective Tape, Hook and Loop Front, 5-point Breakaway, X Pattern Back, 4 Pockets, Fluorescent Lime / Orange.

CSV-125 Sizes: M-4XL

CSA-Z96 Class 2, Solid Tricot, 4" Orange/Yellow & 2" Silver Reflective Tape, Hook and Loop Front, 5-point Breakaway, X Pattern Back, 4 Pockets, Fluorescent Lime / Orange.

CSV-128 Sizes: M-4XL

CSA-Z96 Class 2, Mesh, 4" Orange/Yellow & 2" Silver Reflective Tape, X Pattern Back, 1 Pocket, 2 Tab Holders, Fluorescent Lime / Orange.

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AS/NZS 4602.1 specifies the visual requirements for high visibility garments to ensure appropriate visibility for workers who may be exposed to traffic hazard in high risk situations. It also refers to another standard AS/NZS 1906.4:2010 for the reflective material that are used in the garments.

There are three classes relating to the application of the garments. Class D for daytime use only, Class N for nighttime use only, and Class D/N for day and/or night time use.

**CLASS D** garments made from high visibility background materials without retro-reflective tape, are designed for daytime use only. The minimum area of high visibility background material shall be no less than 0.2 m² both front and back.

**CLASS D/N** garments combine high visibility background materials with retro-reflective tape, making them suitable for day and night use, or for workplace with low light conditions. Retro-reflective tape shall comply to AS/NZS 1906 and in specific tape configurations.

CSV-122 Sizes: M-4XL
AS/NZS 4602.1 Class D/N, Solid Tricot, 2" Silver Reflective Tape, Hook and Loop Front, Fluorescent Lime / Orange.

CSV-123 Sizes: M-4XL
AS/NZS 4602.1 Class D, Solid Tricot, Hook and Loop Front, Fluorescent Lime / Orange.
SAFETY VEST | NON-RATED

CSV-129  One Size

CSV-015  One Size
Non-rated, Mesh, 1” Reflective Gloss Tape, Hook and Loop Closure, Elastic Side Straps, Fluorescent Lime / Orange.

CSV-115  One Size

CSV-035  One Size

CSV-030  One Size
Non-rated, Mesh, 2” Reflective Gloss Tape, Hook and Loop Snap Closure, Fluorescent Yellow, Orange, Black.
UNDERSTANDING

ANSI/ISEA 107-2015
American National Standard for High-Visibility Safety Apparel and Accessories

TYPE P CLASS 2 garments provide additional options for emergency responders, incident responders and law enforcement in temporary traffic control (TTC) zones. It requires a minimum of 450 in² of background material and 201 in² of retro reflective or combined performance material.

CSV-061  One Size
ANSI 107 Type P Class 2, Solid Tricot, Two 1” Silver Reflective Tape with Black Edging, Breakaway Shoulders & Sides, 2 Mic Clip, Pen Pocket, Fluorescent Lime.

CSV-130  One Size
Polyester Twill Fabric, 1” Reflective Gloss Tape, 2 Pockets, Hook and Loop Front, Blue, Red, Black, Green Color.

CSV-131  One Size
ANSI 107 Type P Class 2, Solid Tricot, 2” Silver Reflective Tape with Black Edging, V-neck, Breakaway Shoulders & Sides, 2 Tab Holders, Fluorescent Lime.
SAFETY VEST | RUNNING

CSV-096 One Size
2" Reflective Elastic Band, Plastic Buckles and Strap Tighteners, Fluorescent Lime / Orange.

CSV-132 One Size
Tricot and Mesh Fabric, Silver Reflective Tape, Elastic Side Straps, Fluorescent Yellow / Green.

CSV-140 Sizes: S-L
Solid Tricot, Reflective Printing Fabric, Silver Reflective Tape, Zipper Closure, Fluorescent Yellow & Black.

CSV-141 Sizes: S-L
Softshell Fabric with Reflective Printing, Zipper Closure, 2 Zipper Pockets, Fluorescent Lime.
UNDERSTANDING

**EN 1150:1999**

European Standard for Visibility Clothing for Non-professional Use

Whilst EN ISO 20471 specifies requirements for high visibility clothing for professional use in the work place, the EN 1150 standard provides details for non-professional use. It is considered to be suitable for children, cyclists and pedestrians or other traffic related interaction activities.

EN 1150 can either be satisfied by the minimum area of background and retro reflective materials or, depending on the height of the wearer, the combined performance area.

**CSV-105** Sizes: XS-L

EN1150, Solid Tricot, 2" Silver Reflective Tape, Elastic Straps and Velcro Side Fastening, Fluorescent Lime / Orange.

**CSV-093** Sizes: XS-L

Solid Tricot with Reflective Printing, Elastic Straps and Velcro Side Fastening, Fluorescent Lime.

**CSV-091** Sizes: XS-L

Solid Tricot with Reflective Printing, 1" Silver Reflective Tape, Hook and Loop Front, Fluorescent Orange & Lime.

**CSV-092** Sizes: XS-L

Solid Tricot with Reflective Printing, 2 Pockets, Hook and Loop Front, Fluorescent Lime.
SAFETY VEST | PET

CSV-046
Sizes: S-L
Solid Tricot, 1” & 2” Silver Reflective Tape, Adjustable Velcro Fasteners, Fluorescent Lime.

CSV-134
Sizes: S-L
Polyester Nylon Silver Reflective Fabric, Adjustable Velcro Fasteners, Silver Grey in Daylight, Reflective White at Night When Illuminated by Light.

CSV-133
Sizes: S-L
100% Polyester Fabric with Reflective Printing, Reflective Pattern Customizable, Adjustable Velcro Fasteners, Fluorescent Orange.
UNDERSTANDING

EN ISO 20471:2013
European Standard for High Visibility Clothing & Accessories

**CLASS 3** performance provides the highest level of conspicuity. A Class 3 garment is required to cover the torso and has sleeves with reflective bands or/and trouser legs with reflective bands. It requires a minimum of 0.80m² of background material and 0.20m² of retro reflective material.

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**CSR-T010**  Sizes: M-4XL
EN 20471 Class 2, Short Sleeve, Birdseye Mesh, 2" Silver Reflective Stripes, Fluorescent Lime / Orange.

**CSR-T013**  Sizes: M-4XL
ANSI 107 & EN 20471 Class 3, Short Sleeve, Birdseye Mesh, 2" Silver Reflective Stripes, Breast Pocket, Fluorescent Lime / Orange.

**CSR-T012**  Sizes: M-4XL
ANSI 107 & EN 20471 Class 2, Short Sleeve, Birdseye Mesh, 2" Silver Reflective Stripes, Breast Pocket, Fluorescent Lime / Orange.

**CSR-T011**  Sizes: M-4XL
ANSI 107 & EN 20471 Class 2, Short Sleeve, Polyester Jersey Fabric, 2" Silver Reflective Stripes, Breast Pocket, Fluorescent Lime / Orange.
T-SHIRT

CSR-T015  Sizes: M-4XL
ANSI 107 & EN 20471 Class 2, Long Sleeve, Birdseye Mesh, 2” Silver Reflective Stripes, Breast Pocket, Fluorescent Lime / Orange.

CSR-T016  Sizes: M-4XL

CSR-T014  Sizes: M-4XL
ANSI 107 & EN 20471 Class 2, Short Sleeve, Birdseye Mesh, 2” Silver Segmented Reflective Stripes, Breast Pocket, Fluorescent Lime / Orange.
CSR-T008
Sizes: M-4XL
ANSI 107 & EN 20471 Class 2, Short Sleeve, Pique Fabric, 2” Silver Reflective Stripes, 3 button Placket, Fluorescent Lime / Orange.

CSR-T017
Sizes: M-4XL
EN 20471 Class 2, Short Sleeve, Pique Fabric, 2” Silver Reflective Stripes, 3 button Placket, Fluorescent Lime & Blue, Fluorescent Orange & Blue.

CSR-T018
Sizes: M-4XL
AS/NZS 4602.1 Class D, Short Sleeve, Pique Fabric, 3 Button Placket, Fluorescent Lime & Blue, Fluorescent Orange & Blue.

CSR-T019
Sizes: M-4XL
**CSR-SW001** Sizes: M-4XL

**CSR-SW002** Sizes: M-4XL
ANSI 107 & EN 20471 Class 3, Long Sleeve, Polyester Fleece, 2” Silver Reflective Stripes, Pullover Type, Fluorescent Lime / Orange.

**CSR-SW005**
Sizes: M-4XL
ANSI 107 Class 3, Long Sleeve, Polyester Fleece, 4” Orange/Yellow & 2” Silver Reflective Tape, Zipper Front, 2 Lower Patch Pockets, Attached Drawstring Hood, Fluorescent Lime / Orange.

**CSR-SW004**
Sizes: M-4XL
ANSI 107 & EN 20471 Class 3, Long Sleeve, Polyester Fleece, 2” Silver Reflective Stripes, 1 Large Front Pocket, Pullover Type with Attached Drawstring Hood, Fluorescent Lime / Orange.
UNDERSTANDING

EN ISO 20471:2013
European Standard for High Visibility Clothing & Accessories

CLASS 1 performance provides less visibility than Class 2 or 3, but can be a good alternative for low risk duties and environments. It requires a minimum of 0.14m² of background material and 0.10m² of retro reflective material.

ANSI/ISEA 107-2015
American National Standard for High-Visibility Safety Apparel and Accessories

CLASS E as a supplement type of ANSI 107, can be applied to rain pants, bib pants, shorts etc. It can combine with a Class 2 vest for an ANSI Class 3 ensemble; or a Class 3 vest to attain a higher level visibility. It requires a minimum of 465 in² of background material and 109 in² of retro-reflective or combined performance material.
JACKET

CSJ-009 Jacket
Sizes: M-4XL
ANSI 107 & EN 20471 Class 3, PU Coated 300D Oxford Shell, Quilted Taffeta Liner, 2" Silver Reflective Stripes, Detachable Hide-away Hood, Elastic Waists & Wrists, 1 Phone Pocket, 2 Zipper Pockets, Fluorescent Lime / Orange.

CSJ-007 Jacket
Sizes: M-4XL

CSJ-005 Jacket
Sizes: M-4XL
ANSI 107 & EN 20471 Class 3, PU Coated 300D Oxford Shell, Fleece Body Plus Quilted Sleeves, 2" Silver Reflective Stripes, Detachable Hood with Drawstring, Snap Wrist Closure, 1 Phone Pocket, 2 Lower Front Pockets, Fluorescent Lime / Orange.
CSC-002 Coverall
Sizes: M-4XL
Grey Color Cotton-poly Blend Fabric, 4” Orange & 2” Silver Reflective Tape, Hidden Zipper Closure, 9 Pockets, Snap Button at Wrist and Ankle Openings for Adjustment.

CSJ-016 4 in 1 Jacket
Sizes: M-4XL

CSJ-018 4 in 1 Jacket
Sizes: M-4XL
**CSJ-019 Jacket**
Sizes: M-4XL
Softshell Fabric with Reflective Printing, Zipper Closure, 1 Zipper Chest Pocket, 2 Lower Front Pockets, Hood with Adjustable Pull Cord, Fluorescent Lime.

**CSJ-012 Jacket**
Sizes: M-4XL

**CSJ-020 Jacket**
Sizes: M-4XL
Polyester Taffeta with Reflective Printing, Zipper Closure, One Pouch on the Back as Integrated Portable Bag, Sky Blue Color.
**CSR-NS001** Neck Shade
One Size
Mesh Fabric, 2" Orange/Yellow & 1" Silver Reflective Tape, Fits Cap Style and Full Brim Hard Hats, Fluorescent Lime / Orange.

**CSR-LS001** Leg Sleeves
One Size

**CSR-AB002** Armband
One Size
2" Elastic Band with 1" Silver Heat Transfer Reflective Tape, Adjustable Hook and Loop Closure, Fluorescent Lime
Innovation and customized developments are our top priority. Chinastars is a leading manufacturer of reflective tape and custom made safety clothing with over a decade of experience. As a result, Chinastars can offer you professional suggestions and provide you excellent OEM & ODM services.

COMMON FABRICS
Below are some of the most commonly used safety clothing fabrics for your reference:

- **Tricot Fabric**
  120gsm, 100% PES, EN 20471/ANSI 107, Suitable for Certified Solid Safety Vests.

- **Filament Fabric**
  60gsm, 80gsm, 100gsm, 100% PES, Suitable for Non-rated Solid Safety Vests & Piping.

- **American Mesh**
  110gsm, 100% PES, ANSI 107, Suitable for Certified Mesh Safety Vests.

- **Mesh Fabric**
  55-60gsm, 90gsm, 130gsm, 100% PES, Suitable for Non-rated Mesh Safety Vests.

- **Twill Fabric**
  130-140gsm, 100% PES, EN 20471/ANSI 107, Suitable for T-shirt.

- **Birdeye Mesh**
  180-200gsm, 100% PES, EN 20471/ANSI 107, Suitable for T-shirt.

- **Jersey Fabric**
  200gsm, 100% PES, EN 20471/ANSI 107, Suitable for Polo Shirt.

- **Pique Fabric**
  150D, 300D, 100% PES, PU Coated, EN 20471/ANSI 107, Suitable for Rain Wear, Jackets.

- **Oxford Fabric**
  150D, 300D, 100% PES, PU Coated, EN 20471/ANSI 107, Suitable for Rain Wear, Jackets.

- **Fleece Fabric**
  260gsm, 280gsm, 300gsm, 100% PES, EN 20471/ANSI 107, Suitable for Sweatshirt.

- **Reflective Printing Fabric**
  Custom Reflective Patterns, Printed to Various Base Fabrics, Suitable for Safety Vests, Jackets.

- **Reflective Fabric**
  Highly Reflective at Night with Light, Silver Grey in Daylight, Suitable for Outer Shell Jackets or Safety Vests.
**OEM/ODM SERVICE**

**REFLECTIVE TAPE**
- Poly./TC
- Spandex
- Heat Transfer
- PVC
- Warning
- FR
- Segmented
- Perforated
- Checkered
- Custom Printing

**CUSTOM LOGO**
- Silk Screen
  Economical, Plate Fee Charged Per Color, Suitable for Large Area Printing with Fewer Colors.
- Reflective Heat Transfer
  Highly Reflective, Easier to be Seen at Night, Silver or Custom Colors.
- Heat Transfer
  Suitable for Small Area Printing with Multiple Colors or Gradient Colors.
- Embroidery
  More Expensive, Suitable for Small Logo.

**PACKAGE**
- OPP Bag
- PE Bag with Slider
- Cloth Bag
- Retail Package

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