



Reflective Tapes for Hi-Viz Clothing

# XM-6011

100% FR-COTTON

SILVER REFLECTIVE TAPE



## Care instructions

Before the first use, the suitability of the intended care process for XM SilverLine™ XM-6011 - Silver Reflective Tape must be determined. Test duration should reflect the anticipated maximum number of wash cycles in use.

### 1. Domestic Wash

A clothing wash programme without pre-wash should be used

**Recommendation:**

Wash temperature range: 40°C to 92°C

Max. wash time at highest wash temperature: 12 minutes

Max. programme time: 50 minutes

**Detergent:** Brand powdered household detergents should be used.

Refer to the detergent manufacturer's recommendations for dosage in areas of high water hardness and for various degrees of garment soiling. Use of temperatures lower than 60°C will increase the lifetime of the reflective tape. Actual lifetime will be dependent upon the detergent system and its dosage level.

Load factor higher than 65% might lead to enhanced abrasion of the centered silver reflective stripe.

- The washing machine should be a front-loading, open pocket washer-extractor  
**Tunnel washing is not recommended.**
- Brightly coloured clothing should be washed separately from normal coloured work wear.
- The wash process should be based on a pre- and main-wash followed by a third bath, or a cooldown and 3-4 rinse cycles.  
**Extended rinsing is recommended to completely remove all detergent residues.**
- Load factor should not exceed 65%, with the wash water ratio of 1:6 and the rinse water ratio of 1:8.  
**Wash temperature** should not exceed 60°C.  
**Total time** of the pre- and main-wash bath should **not** exceed 20 minutes.

**Detergent:** Low- to- medium alkaline, high-surfactant detergents are preferred.

- The detergent should not contain free sodium or potassium hydroxide.  
Controlled detergent dosage should give actual wash lye concentration not exceeding those detailed below.

Parameter	Recommended	Maximum
pH- value	10.0 to 10.5	<11.0
Active Alkalinity	<450 mg/l	<600 mg/l
Na <sub>2</sub> O sodium oxide		

**Sour:** The wash load should be reffectively soured achieving a pH-value of 5.5 - 6.5 in the final rinse. (Alkalinity titration against phenolphthalein endpoint, without BaCl<sub>2</sub> addition).

Detergent systems with a high alkaline strength, containing organic solvents or free sodium / potassium hydroxide should **not** be used.

Detergent systems and sour should **not** contain any oxidising chemicals, (e.g. chlorine bleach).

**USE OF A LOWER pH AND ALKALINITY WILL INCREASE THE LIFETIME OF THE REFLECTIVE TAPE. ACTUAL LIFETIME WILL BE DEPENDENT UPON THE DETERGENT SYSTEM AND ITS DOSAGE LEVEL.**



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## 2. Do not use additional bleach

- No chlorine bleach
- No bleaches on oxygen basis (e.g. sodium perborate bleaches)

Do not store a wash batch even in a low concentration of bleach.



## 3. Drying

### Tumble Dryer:

Tumble drying should be performed in a commercially available household dryer using the medium dry setting. Exhaust temperature should **not** exceed 90°C.

Do **not** overdry. Damp dry only.

- Load ratio: 1:25.
- Inlet temperature should **not** exceed 140°C.
- **The drying process must be controlled to ensure that the exhaust temperature does not exceed 90°C.**
- The drying process should be continued until the load is damp dry.

Tunnel finishing is **not** recommended.

**DO NOT OVERDRY. REFLECTIVE TAPE TEMPERATURE SHOULD NOT EXCEED 90°C AT ANY TIME DURING DRYING.**



### Air Drying:

Line drying is recommended where possible.

## 4. Ironing

- Use medium setting, use press cloth.
- Do not apply steam.



## 5. Dry Cleaning

- Cleaning process should be based on a pre- and main-bath only
- For **(P)** it is recommended that only **pure** perchloroethylene is used.
- Adjust load and solvent level to give a moderate mechanical action.



**Max. solvent temperature:** 30°C

**Recommended drying temperature:** 40°C

**Max. inlet temperature:** 80°C

**Max. exhaust temperature:** 60°C

**Max. drying time:** 15 minutes

**Max. programme time:** 60 minutes

If stain removing substances (e.g. surfactant-based cleaning booster) need to be used, their compatibility with the reflective tape should be determined prior to the application.

## Important Notice

LIMITED WARRANTY: In the event any XM SilverLine™ Reflective Tape is found to be defective in material, workmanship, or not in conformation with any express warranty, XM Textiles Europe only obligation and your exclusive remedy shall be to replace or refund the purchase price, at XM Textiles Europe option, of such product upon timely notification thereof and substantiation that the product has been stored, maintained and used in accordance with XM Textiles Europe written instructions.



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