Instructions for Use (IFU) Reference: IFU-002-02

Device Reference: TLSO, FTLSO, VTLSO, VFTLSO Product Name: Royal Body Sock Manufacturer: Royal Knit, Inc. Address: 26011 NE Colbern Rd, Lee's Summit, MO 64086

Royal Knit, Inc

ENG - Instructions for Use (IFU)

Symbols and Definitions

Manufacturer – Company that produces Non-Chlorine Bleach - Bleach with no



Dry Normal, Low Heat - Dry on



Normal cycle on low heat setting Machine Wash Warm – Wash at 40°C (104°F)



CE Marking – Indicates conformity with health, safety, and environmental protection standards for products within the European Economic Area

Device Description

The TLSO Undershirt is a specialized textile interface designed for use with thoracolumbosacral orthoses (TLSOs) and other rigid spinal braces. It serves as a protective barrier between the skin and the orthotic device, preventing irritation, excessive moisture buildup, and pressure sores. The undershirt is made of moisture-wicking, breathable, and hypoallergenic materials to ensure maximum comfort and durability for extended wear.

Key Features:

- Soft, stretchable material for a snug, comfortable fit under a TLSO brace.
- Seamless or flat-seam construction to prevent pressure points.
- Moisture-wicking properties to keep the skin dry.
- Hypoallergenic and breathable fabrics for all-day wear.
- Longer length design to ensure full coverage and prevent rolling or bunching under the brace.

Materials Used:

- Coolmax® tetra-channel/polyester blend and Lycra® yarn.

All materials are moisture-wicking, ensuring a dry and comfortable fit throughout the day.

Intended Use

The TLSO Undershirt is intended for individuals who wear a

thoracolumbosacral orthosis (TLSO) or other rigid spinal braces. It is designed to:

- -Provide a protective barrier between the skin and the brace to prevent irritation and pressure sores.
- -Improve patient comfort and adherence to brace therapy.
- -Regulate moisture and prevent excessive perspiration under the brace.

Intended Users:

-Individuals undergoing treatment for scoliosis, kyphosis, or post-operative spinal stabilization using a TLSO brace.

Contraindications:

- -Not suitable for individuals who do not require an orthotic brace.
- -Should not be used on broken or infeted skin without medical consultation.

Care Instructions

- Wear Clean Brace Shirts Daily
- Machine wash warm (40°C / 104°F)
- Use non-chlorine bleach only when needed
- Do not use fabric softener sheets (liquid softener is acceptable)
- Do not hand wash
- Tumble dry low

Environmental Conditions

- -Usage: Suitable for indoor and outdoor environments.
- -Limitations: Not suitable for prolonged exposure to water.

Product Sterilization

-The product is not sterilized and does not require sterilization.

Electrical Components

-There are **no** electrical components; the material is non-conductive.

Hazardous Materials

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-The device contains no hazardous materials.

Instructions for Use

Date: 2025-03-05

Fitting the TLSO Undershirt:

- a) Ensure the skin is clean and dry before putting on the undershirt.
- b) Pull the undershirt over the head and adjust it so that it fits smoothly against the torso.
- c) Make sure the undershirt covers the entire area that will be in contact with the brace.
- d) Put on the TLSO brace over the undershirt and fasten it as instructed by your healthcare
- e) Ensure the undershirt remains wrinkle-free and does not bunch under the brace..

Expected Performance & Safety

The TLSO undershirt is designed to: a) Maintain structural integrity after repeated washing and extended wear.

- b) Minimize the risk of skin irritation and pressure points.
- c) Provide a comfortable, breathable layer under a rigid spinal brace.

Warnings & Precautions

- a) Do not wear a wet or damp undershirt under your brace, as this can cause skin irritation.
- b) **Regularly** check the skin for signs of redness, irritation, or pressure sores: discontinue use and consult a healthcare provider if skin issues arise.
- c) **Ensure** the undershirt size is correct to prevent discomfort or bunching under the brace.

Regulatory Compliance & Risk Management

This product complies with MDR (EU) 2017/745 safety standards and has been tested under ISO guidelines for medical textile devices.

Risk Management:

- -Skin Irritation Prevention: The undershirt is made from hypoallergenic materials that have been tested for biocompatibility under ISO 10993-1 to minimize the risk of allergic reactions and irritation.
- -Moisture Control: Moisture-wicking fabrics help prevent excessive perspiration, reducing

the risk of fungal infections and skin breakdown.

- -Durability and Wear Testing: The product has undergone extensive wear testing to ensure it maintains integrity after repeated washing and extended use.
- -Proper fit and Use: Instructions emphasize the importance of proper sizing to avoid bunching, which could cause pressure sores or discomfort.
- -Post-Market Surveillance (PMS): Ongoing PMS ensures continuous monitoring for any adverse effects or potential product improvements.

Post-Market Surveillance (PMS) & Clinical Feedback

- -Post-market feedback and clinical evaluations indicate high user satisfaction with minimal reported side effects.
- -The most common issue reported is **mild skin** irritation, usually resolved by switching to a different fabric.
- -Ongoing monitoring ensures continued compliance with safety, efficacy, and regulatory requirements.

This IFU aligns with the Clinical Evaluation Report (CER), ensuring that all TLSO Body sock specifications, usage recommendations, and risk management strategies are compliant with MDR regulations. For further details, consult the Clinical Evaluation Report (CER) for TLSO Body Sock or contact Royal Knit, Inc.



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