

**ORFIZIP® LIGHT NS IVORY**  
**ORFIZIP® LIGHT NS ATOMIC BLUE**



**A. GENERAL PRODUCT INFORMATION**

ORFIZIP LIGHT NS is a low temperature thermoplastic material with a non-stick antibacterial coating, finished with a double-sided zip closure. ORFIZIP LIGHT NS is applied directly to the patient once activated. ORFIZIP LIGHT NS is designed for the quick and easy production of removable orthoses, external immobilization devices and rehabilitation aids. This removable wrist orthosis can be used for the following indications: forearm fractures, wrist sprains, post-operative immobilization, carpal tunnel syndrome, rheumatoid arthritis etc.

**!** *ORFIZIP LIGHT NS is not suitable for internal use. This product may not be used on open wounds or in the mouth.*

**B. PRODUCT DESCRIPTION**

ORFIZIP LIGHT NS is available in 3 different sizes, 2 thicknesses, 2 colours and 1 perforation type.

ORFIZIP LIGHT NS IVORY	Art. No.	Size	Thickness in mm	Perforation type
	39108N/25MI/L/NS	small	2.5	micro perforated
	39109N/25MI/L/NS	medium	2.5	micro perforated
	39110N/25MI/L/NS	large	2.5	micro perforated
	39111N/32MI/L/NS	small	3.2	micro perforated
	39112N/32MI/L/NS	medium	3.2	micro perforated
	39113N/32MI/L/NS	large	3.2	micro perforated

ORFIZIP LIGHT NS AT. BLUE	Art. No.	Size	Thickness in mm	Perforation type
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**C. PRECAUTIONS BEFORE USE**

1. Make sure the workplace is well-ventilated to avoid overheating.
2. The necessary tools should in no way put the patient at risk.
3. Position the patient comfortably and ensure that you have easy access to the involved extremity.
4. Make sure the correct size is available before preparing the patient and activating ORFIZIP LIGHT NS.
5. Make sure that the temperature of the activated material will not burn the patient.

**!** *Mind the metal closure of the zipper which can get very hot!*

6. Be aware that overly large sizes cannot be made smaller whereas overly small sizes can be stretched if necessary.

A tubular cotton stockinet can be used underneath while moulding to prevent accidental burning of the patient's skin. If necessary, protect the ulnar styloid with a piece of LUXOFOAM.

#### D. SIZING

Measure the wrist circumference, distal to the ulnar styloid and determine the size of the ORFIZIP LIGHT NS orthosis using the table of measurements hereafter.



Type	Size	
Small	12 -15 cm	4.72" - 5.9"
Medium	16 - 19 cm	6.29" - 7.48"
Large	20 - 25 cm	7.87" - 9.84"

#### E. ACTIVATION

1. ORFIZIP LIGHT NS is activated and softened by heating at a minimum temperature of 65°C (149°F). Possible activation sources are: Suspan water bath, dry heater, heat gun, heating plate or hot air oven. **Do not use a microwave oven because of the metal zip tab.** The minimum activation time of the ORFIZIP LIGHT NS in a Suspan water bath is 3 minutes.
2. When using a Suspan water bath, it is recommended to use distilled water or to soften the water by adding a spoonful of liquid soap.  
Activate the ORFIZIP LIGHT NS in the hot water bath at 65°C (149°F) during the time indicated above (minimum 3 minutes) until it is completely mouldable and stretchable. Take it out of the water and let it cool and dry on a clean and smooth surface for a few seconds.

**! Do not dry on a towel as this will leave an imprint on the surface. Make sure that the temperature of the activated material will not burn the patient.**

3. When using a heat gun, do not exceed 250°C (482°F) to avoid breakdown of the material. Place the ORFIZIP LIGHT NS in a heat resistant cylinder to save heat. Blow very hot air in the centre of the recipient and avoid direct air flow on the ORFIZIP LIGHT NS which could cause burns. Wear insulating gloves.  
When using a heating plate or a hot air oven, the heating surface must be covered with a Teflon film. ORFIZIP LIGHT NS has a nice high gloss coating which prevents sticking to the skin. Avoid too long activation times in order not to damage the coating layer.
4. When activating the ORFIZIP LIGHT NS in a hot air oven or with a heavy-duty heat gun, do not exceed 120°C (248°F). Make sure that the ORFIZIP LIGHT NS is fully and homogenously activated and can be stretched out easily. Take it out of the oven and let its surface cool on a smooth surface for a few seconds.

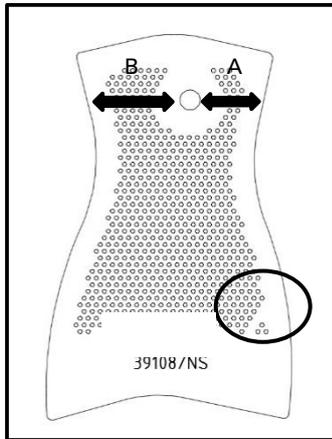
**! Make sure that the temperature of the activated material and the metal parts of the zipper will not burn the patient.**

5. High temperatures up to a maximum of 120°C (248°F) do not damage ORFIZIP LIGHT NS, but are not user-friendly. High temperatures are allowed provided that the activation time is reduced accordingly and that the product is sufficiently rubbed with talcum powder to avoid accidental stickiness.

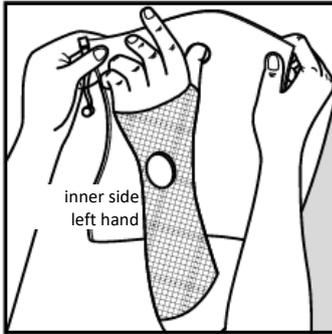
**! Wear insulating gloves and do not apply the ORFIZIP LIGHT NS directly to the patient at these high activation temperatures.  
Never use an open flame to activate ORFIZIP LIGHT NS.**

## F. APPLICATION

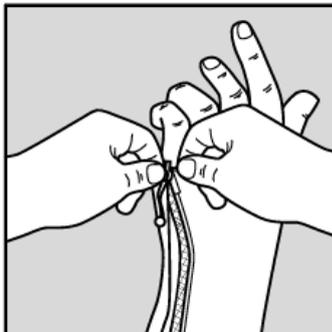
! Each ORFIZIP LIGHT NS design can be used to fabricate either a left or a right wrist orthosis.



A non-perforated and inclined line at the bottom of the ORFIZIP LIGHT NS ATOMIC BLUE - ORFIZIP LIGHT NS IVORY pre-cut indicates which the ulnar-volar side of the orthosis is for LEFT and RIGHT. This inclined line has to be positioned at the proximal volar and ulnar part of the forearm in order to mould a left or a right orthosis. Besides this special indication, it is also possible to easily define in which direction one has to apply the pre-cut to make either a LEFT or RIGHT orthosis: the shortest part of material (A) next to the decentralized thumbhole has to be positioned and moulded on the volar hand side. The other larger part (B) is designed to provide enough material to cover the dorsal hand side. Please make sure to verify this before applying the orthosis to the patient.



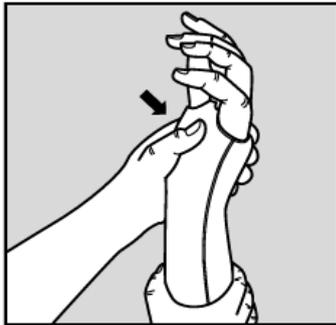
Position the ORFIZIP LIGHT NS orthosis over the patient's thumb with the zip tab pointing to the ulnar aspect of the hand.



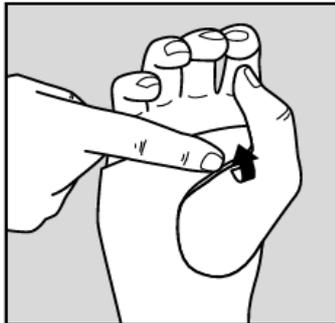
If necessary, roll Stretch ORFIZIP LIGHT NS broad wise to ease the zip closing just below the distal palmar crease.



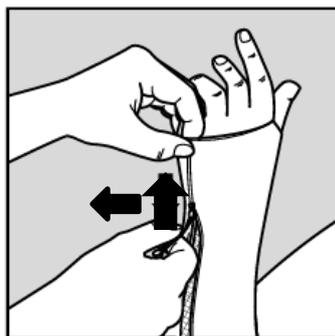
Hold the zip closure firmly while pulling the zipper downwards and side wards, away from the patient's skin to avoid impingement



Position the wrist as required and mould the ORFIZIP LIGHT NS IVORY/  
ORFIZIP LIGHT NS ATOMIC BLUE Wrist orthosis.



If necessary, roll the edges at the distal palmar hand crease and thumb area before the orthosis has hardened. Let the material cool down thoroughly before allowing the patient any wrist or hand movements or before removing the orthosis.



Once cooled down and completely hardened open and remove the orthosis by pulling the zipper upwards and side wards, away from the patient's skin to avoid impingement or discomfort.

***As with all thermoplastics, take advantage of the stretch and the elasticity of ORFIZIP LIGHT NS while moulding but be aware that the product may tear if overstretched.***

1. In case of accidental bonding, let ORFIZIP LIGHT NS harden completely so that parts that are stuck can be separated. Reactivation in hot water is then safe again.
2. Remove the orthosis from the patient when the moulded ORFIZIP LIGHT NS has hardened. Excessive material can be trimmed before complete hardening. To do so, use a suitable pair of bandage scissors. The cooling time can be shortened by means of cold water, cold air, a cold bandage or a cold spray.

#### **G. FINISHING**

1. Trim at length using an appropriate pair of scissors and watch the finishing of the edge.
2. If trimming is necessary across the zipper, pinch a staple at the end of each zip half or stick a dry heated piece or leftover from the ORFIZIP material or another ORFIT sheet material to stop it from fraying out.
3. There are several ways to give the proximal and distal edges of an ORFIZIP orthosis a smooth and even finish:
  - local reheating and rubbing with the finger,
  - after hardening, edge finishing can be done by means of a deburring knife,
  - grinding by using a suitable grinding tool at a low turning speed.
4. Heat ORFIZIP LIGHT NS locally with a heat gun to cut windows.
5. The zipper can be locked (if done/doff is not allowed temporarily) by adhering a piece of dry heated sticky ORFIT sheet material, behind the zip tab. The locker can be removed later with a heat gun.
6. Reactivation of ORFIZIP LIGHT NS is possible when you want to restart moulding the wrist orthosis.

#### H. ADVICE FOR THE PATIENT

! **Make sure the patient understands the wearing schedule of the orthosis.**

#### I. MAINTENANCE AND WASTE MANAGEMENT

This product can be cleaned and disinfected by means of soapy water or an isopropanol based disinfectant, applied with a soft cloth. If unsure about the cleaning fluid, do not use. **Never use aerosol sprays, corrosive cleaning agents, solvents or abrasive detergents.**

The product can be disposed of with household waste.

Contact your distributor if there are any questions or concerns.

#### J. STORAGE

- ORFIZIP LIGHT NS should be stored vertically if supported and horizontally if not.
- Products must be kept in a dark, cool, dry place at a temperature of min. 10°C (50°F) and max. 30°C (86°F) and in the original packaging.

Once removed from the packaging, left-overs should be placed back in the packaging for storage to avoid adhesion of the NS film and biodegradation.

Low temperature thermoplastics can only be kept for a limited period of time and must be protected as much as possible from light, heat and humidity. The material ages in relation to storage circumstances. When aged, it becomes brittle and often very stretchy when activated.

#### K. GENERAL SAFETY ADVICE

! **ORFIZIP LIGHT NS is not suitable for internal use. This product may not be used on open wounds or in the mouth.**

! **Never use an open flame to activate ORFIZIP LIGHT NS IVORY - ORFIZIP LIGHT NS ATOMIC BLUE. To make orthosis and rehabilitation aids, ORFIZIP LIGHT NS may only be used by qualified health professionals.**

#### L. ADDITIONAL INFORMATION

For additional information such as distributor contact information, product brochures, Safety Data Sheets and regulatory information, please visit our website [www.orfit.com](http://www.orfit.com).

#### Note:

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