

SFLAT SPLINTS

Thermoformable

custom-made



Professional Orthopedic Products

BACKGROUND



How did this project come about?



To provide an **immediate solution** in cases where **acute, customised immobilisation** of the affected limb is necessary, such as for: severe wrist sprains, wrist/forearm fractures, post-operative wrist fusions, or arthritic or paralysis-related conditions.

SOLUTION

A **custom-made splint** that fully conforms to the patient's anatomy.







FLAT SPLINTS Thermoformable custom-made



FLAT SPLINTS Thermoformable

IMMOBILISATION

The materials that compose the flat splint **immobilise the wrist joint allowing optimal adaptation of the brace** to the patient's morphology.





INNOVATION

Thanks to the thermoforming process from a flat splint to a fully customised splint on the patient.





GENERAL MATERIAL CHARACTERISTICS







IMMOBILISATION

Rigid outer layer



Thermoformable



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FAST DRYING Its design allows for optimum breathability



MONITORABLE

Suitable for x-ray use - no metallic elements -

Visual skin control - mesh design - RESISTANT

Impact-resistant



Safe material compatible with skin WATERPROOF Water-resistant



GENERAL SPLINT CHARACTERISTICS



RIGID OUTER LAYER (PLA)

Immobilisation
Breathability
Thermoformable

FLEXIBLE INNER LAYER (TPU)

Breathability
Comfort

THUMB HOLE

 Adjustable size according to patient
Flexibility
Comfort

STRAPPED SYSTEM

Autonomy
Comfort

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Flat Forearm Splint Without Thumb

Effects

· Immobilisation of the wrist joint.

To be used for

- · Wrist sprain.
- · Distal wrist and forearm fractures.
- \cdot Postoperative wrist fusions.
- \cdot Arthritic or paralysis-related conditions.

SIZE	MAXIMUM PERIMETER PALM	MAXIMUM PERIMETER FOREARM	WRIST-ARM DISTANCE FOR TAKING MEASUREMENTS
1	14-16	18	12
2	16-18	20,5	13
3	18-20	23	15
4	20-22	27	16,5
5	22-24	29,5	16,5
6	24-26	31,5	16,5

WITH HEAT GUN

Up to the ideal forming point, **approx**. **3-3.5 min**.^{*}, while the material is being felt.

350°C / 662°F* **Spread** the heat flow over the **entire surface** with constant movements.

WITH HEAT CHAMBER

(oven, convection oven)

80°C / 176°F* Insert with the rigid part of the splint facing upwards.

IMPORTANT: These parameters can change depending on a oven brand & model. Make sure manually the plasticity of the splint.

WARNING

Avoid overheating the material.

Excessive heating will prevent the correct adaptation of the splint to the patient's morphology.

WARNINGS

- Exceeding the indicated temperature and heating times stiffens the material, making it difficult to adapt to the patient's morphology.
- We advise against water-based thermoforming because of the increased risk to the patient.
- Do not repeat the thermoforming process. Localised heating with a gun in key areas (styloid, tenar eminence, etc.) may be used for final fit.

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