

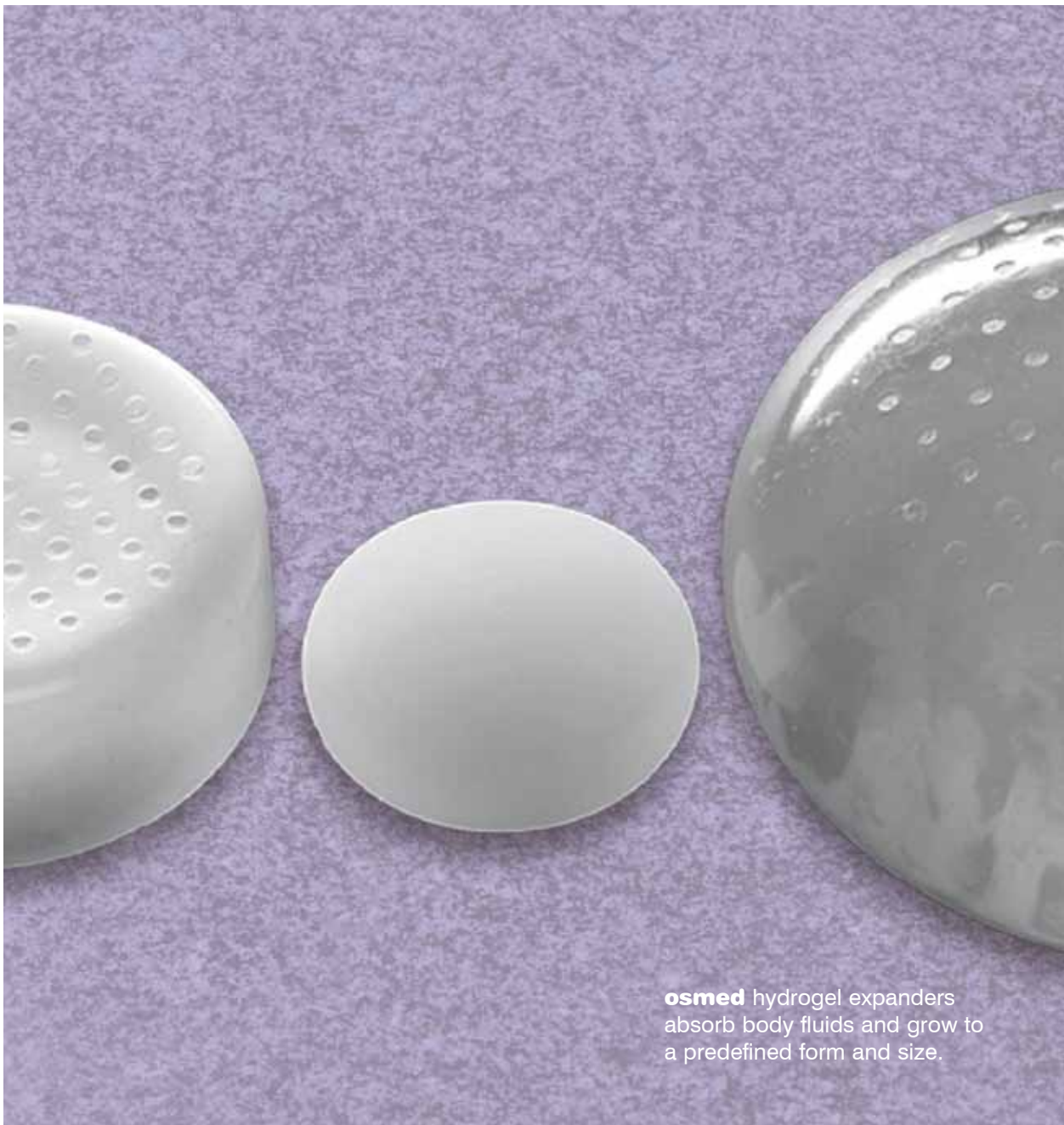
**osmed**

## Self-Inflating Tissue Expanders

Rectangle  
Round

# POLYTECH

Health & Aesthetics



**osmed** hydrogel expanders absorb body fluids and grow to a predefined form and size.

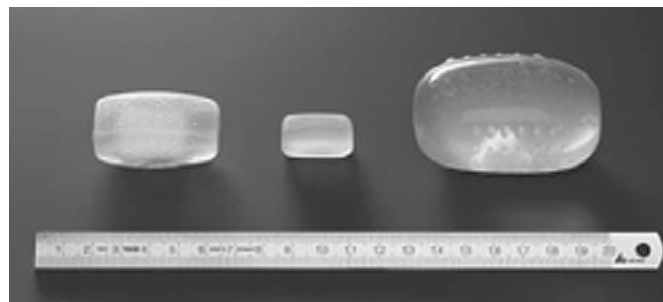
## Product Description

**osmed** self-inflating tissue expanders/implants can be applied for temporary and for permanent use. They are made of a specially developed hydrogel which works according to the osmotic principle to gain volume. Preoperatively, i.e. in their pre-expansion state, **osmed** hydrogel expanders are small, hard and thus an easy-to-handle device. After implantation, osmed hydrogel expanders start to absorb body fluids and grow consistently to a predetermined form and size. The increasing volume of the expanders leads to a growth of the soft tissue. Depending on the product type, the expanders swell to between 3 to 12 times their pre-implantation size. Some of the expanders use a perforated silicone shell to reduce the swelling speed and obtain a roughly linear growth.

## Information on Material

The **osmed** expanders are stable, dry devices, made of a crosslinked hydro-gel of co-polymers based on Methyl methacrylate and N-Vinyl pyrrolidone. Basically, the same hydrogel material is also used in soft contact lenses. The expanders also offer high biocompatibility showing no toxic influence, no genotoxic effects, no immune reactions or infections caused by material. The outer silicone shell is well known and thoroughly studied due to its use in breast implants.

Controlled production: all manufacturing is effected in clean rooms under GMP conditions. Purity and safety of the material are ensured by the vertical integration of manufacturing from polymerisation to the final product.



## Indications

- Breast reconstruction
- Breast deformities (e.g. Poland Syndrome)
- Burns, scars, naevus, alopecia
- Skin cancer, skin defects
- Direct closure of the radial forearm flap

## Advantages

- Small incision, minimal trauma
- No periodic filling, no pressure peaks
- Short operating time

## Important Information

The implants are delivered individually packed and sterile.

**Attention:** Please note the detailed instructions for use included with each product.

Order n°	Specification	Dimensions prior to insertion			Dimensions post absorption			Growth period <sup>2</sup>
		Volume	Projection	Length x Width/Ø <sup>1</sup>	Volume	Projection	Length x Width	
<b>osmed Tissue Expander, Rectangle</b>								
352-2030	30ml	3ml	12mm	22x12mm	30ml	31mm	44x31mm	50 days
352-2060	60ml	5ml	13mm	25x13mm	60ml	36mm	60x36mm	80 days
352-2075	75ml	6ml	12mm	32x16mm	75ml	35mm	74x41mm	90 days
352-2130	130ml	13ml	15mm	40x20mm	130ml	45mm	85x50mm	100 days
352-2200	200ml	20ml	18mm	45x24mm	200ml	52mm	96x60mm	100 days
352-2300	300ml	30ml	21mm	54x28mm	300ml	58mm	115x65mm	100 days
352-2450	450ml	50ml	24mm	60x32mm	500ml	60mm	130x75mm	100 days
<b>osmed Tissue Expander, Round</b>								
352-1200	200ml	20ml	18mm	Ø 37mm	200ml	52mm	Ø 80mm	90 days
352-1330	330ml	30ml	21mm	Ø 42mm	330ml	49mm	Ø 101mm	110 days
352-1450	450ml	43ml	24mm	Ø 51mm	450ml	60mm	Ø 110mm	120 days
352-1550	550ml	60ml	26mm	Ø 51mm	550ml	71mm	Ø 115mm	170 days
352-1650	650ml	70ml	28mm	Ø 55mm	650ml	75mm	Ø 120mm	180 days

1: Ø = diameter; 2: in vitro in 0.9% NaCl solution

Information and Distribution:

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