

Tissue Expander Cupola Dental

for tissue expansion prior to augmentation of resorbed edentulous ridges



| Introduction: Self-inflation by osmotic principle

osmed self-inflating tissue expanders are made of a specially developed hydrogel that uses the osmotic principle to gain volume.

Before expansion, osmed hydrogel expanders are small and hard and are easy to handle. After implantation, osmed hydrogel expanders absorb body fluid and grow consistently to their predefined form and size. The expanders are sheathed with a perforated silicone shell for controlled slow influx of body fluid and slow continuous swelling. The increasing volume of the expander stimulates growth of soft tissue.

General advantages of osmed tissue expanders are: safe material, low complication rate, low risk of infection, small incision, minimal trauma and short surgical time; controlled swelling without pressure peaks. A short surgical time reduces post-operative pain and saves costs.

| Indications for use

Tissue expansion prior to extensive bone augmentation surgery for small (1-2 missing teeth) or curved frontal edentulous areas., e.g.

- ⤿ Onlay grafting with bone block grafts
- ⤿ Other bone regeneration procedures

This device is intended for temporary implantation.

| Special advantages

- ⤿ Unique method for gaining of soft tissue for jaw bone augmentation
- ⤿ Very high biocompatibility
- ⤿ High increase of success. The average failure rate without using an expander is up to 50%!
- ⤿ Tissue Expander Cupola Dental use a perforated silicone shell to reduce the swelling speed and effect a roughly linear growth. The flap of the silicone shell can be used for fixating the expander with a screw.

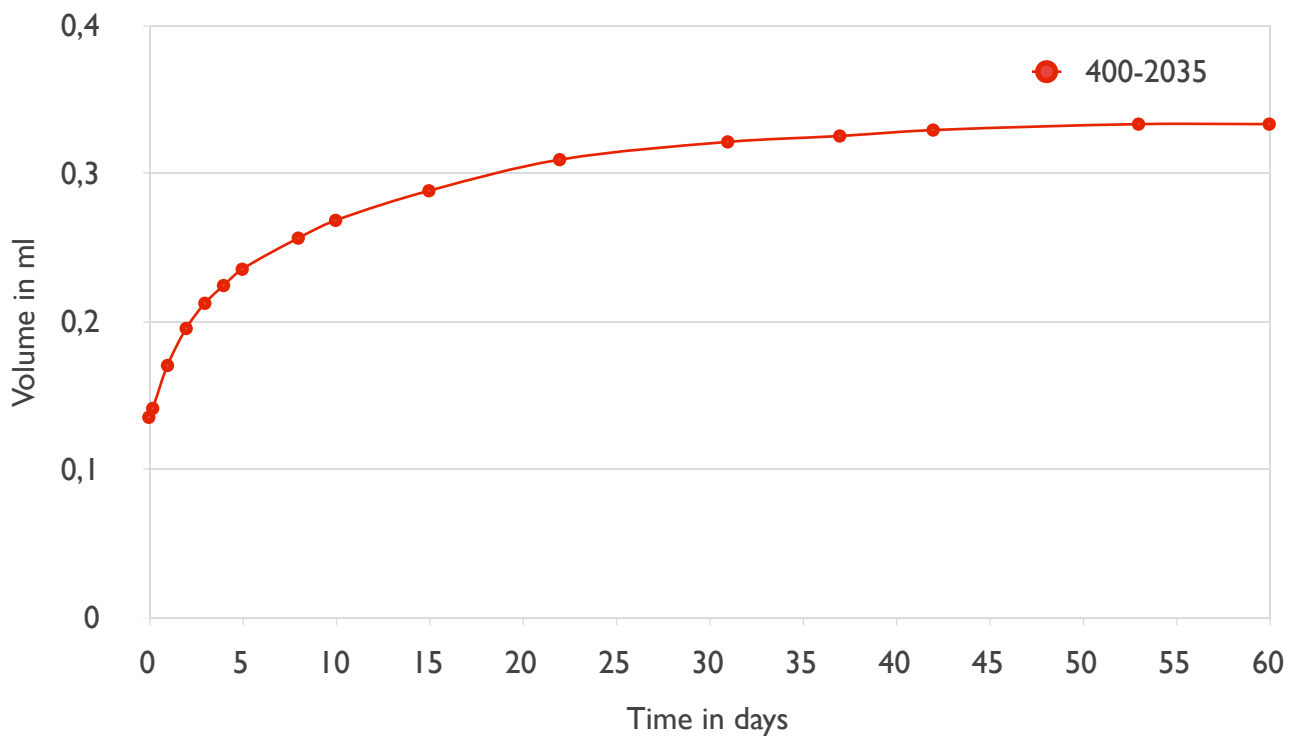
Dimensions

Order No. Item		Before swelling			After swelling*		
		Volume**	Projection**	Diameter**	Volume	Projection	Diameter
400-2035	Cupola Dental 0.35 ml	0.05 ml	3 mm	6 mm	0.35 ml	5.6 mm	9 mm

* in vitro in 0.9% NaCl-Sol.

** without silicone shell

In-vitro-swelling-curve*



* in-vitro in 0.9% NaCl -solution