

CLASSIC CAPS SIZES AVAILABLE: NORMAL AND MICRO

Retentive cap colors and retention

CLEAR CAPS
STANDARD RETENTION



Slightly Elastic

Maximum suggested time of duration in mouth: 12 months
Retention in grams: Normal 1300g / Micro 1100g

PINK CAPS
SOFT RETENTION



Elastic

Maximum suggested time of duration in mouth: 12 months
Retention in grams: Normal from 900g / Micro 800g

YELLOW CAPS
EXTRA SOFT RETENTION



Very elastic

Maximum suggested time of duration in mouth: 12 months
Retention in grams: Normal 500g / Micro 450g

GREEN CAPS
ELASTIC AND GUMMY



Characteristics

Extremely elastic retention, "GUMMY" type. Minimally hydroscopic, with a good adhesion on the sphere.
Retention in grams: Normal 350g / Micro 200g

EXTRA RESILIENT GOLD CAPS
SLIGHTLY ELASTIC



Characteristics

To be used in overdenture prostheses, where resilience and vertical movements are necessary.
Retention in grams: Normal 500g / Micro 450g

EXTRA RESILIENT SILVER CAPS
ELASTIC AND GUMMY



Characteristics

To be used in overdenture prostheses, where a vertical movement is necessary and a light initial retention is requested.
Retention in grams: Normal 350g / Micro 200g

PROCESSING CAPS



Characteristics

Caps to be used only for laboratory processing.

TITAN CAPS
NYLON CAPS WITH INTERNAL TITANIUM RING



Characteristics

Extremely durable. To be used especially in combination with pre-fabricated spheres such as titanium spheres, concave spheres, etc.
Retention in grams: Normal 1500g / Micro 1300g

UNDERSIZED INTERNAL DIAMETER CAPS
STANDARD RETENTION



Characteristics

Internal diameter reduced (Normal 2.2mm | Micro 1.6mm), for 2.25mm - 1.6 spheres
Retention in grams: Normal 1300g / Micro 1100g

UNDERSIZED INTERNAL DIAMETER CAPS
SOFT RETENTION



Characteristics

Internal diameter reduced (Normal 2.2mm), for 2.25mm spheres
Retention in grams: Normal 900g

UNDERSIZED INTERNAL DIAMETER CAPS
EXTRA SOFT RETENTION



Characteristics

Internal diameter reduced (Normal 2.2mm), for 2.25mm spheres
Retention in grams: Normal 500g

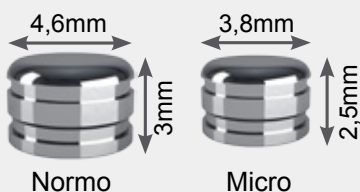
UNDERSIZED INTERNAL DIAMETER CAPS
ELASTIC AND GUMMY



Characteristics

Internal diameter reduced (Normal 2.2mm | Micro 1.6mm), for 2.25mm - 1.6 spheres
Retention in grams: Normal 350g / Micro 200g

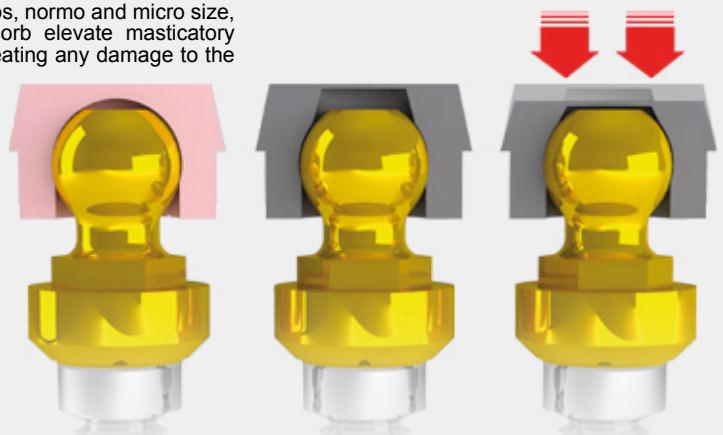
STAINLESS STEEL AND TITANIUM HOUSING FOR CAPS, PRE-FABRICATED, NORMAL AND MICRO SIZES



The new stainless steel housing design offer reduced size and additional stability, it can be embodied directly in the resin, welded or bonded to the frame. The new design is also available in titanium.

EXTRA RESILIENCY FUNCTIONALITY

Extra resilient caps, normo and micro size, will allow to absorb elevate masticatory forces without creating any damage to the implant or root.



COMPARISON OF RIGID CAPS vs. ELASTIC CAPS

Characteristics and retentive functionality

FRICITION FIT CAPS:
RIGID MATERIALS
 • ACETALIC PLASTICS
 • METALS
 (thin layer)

Friction fit contact zone is very thin because of non-elastic material

FRICITION CONTACT ZONE

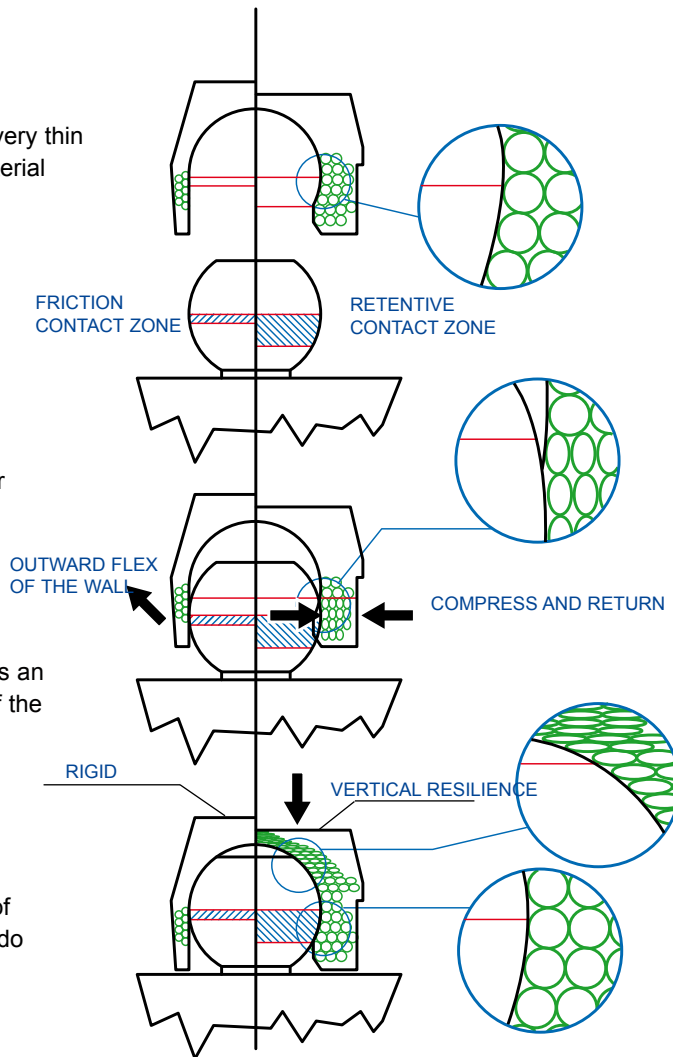
With rigid materials, only minimal friction retention is achieved due to the smaller friction contact zone

FLEXION OF THE WALL

With rigid materials, there is an "outward flex" of the wall of the cap

RIGID RESILIENCE

In spite of the flat surface of the sphere, rigid materials do not allow vertical resiliency



RETENTIVE FIT CAPS:
ELASTIC MATERIALS
 • NYLON
 (thick layer)

The elastic materials allow a wide contact zone of retention by the equator on the undercuts of the sphere

RETENTIVE CONTACT ZONE

With elastic materials, greater friction and mechanical retention is achieved with a higher degree of functionality

COMPRESS AND RETURN

With elastic materials, the wall of the cap is compressed and then returns to its original shape

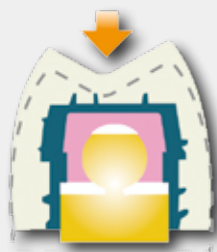
VERTICAL RESILIENCE

The space between the flat surface of the sphere and elastic cap allows for vertical resiliency and reduces stress

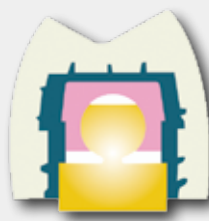
RHEIN83 - DESIGN AND FUNCTION

Rhein83 continues to manufacture female caps with elastic retention with the intention of eliminating as much vertical stress and trauma to the restoration as possible. For Rhein83 the important thing is to make a system of components available to the dental technician and dentist that will allow for the fabrication of a rigid, shock absorbing or resilient prosthesis. With the use of elastic retention, the function of Rhein83 attachments are extended.

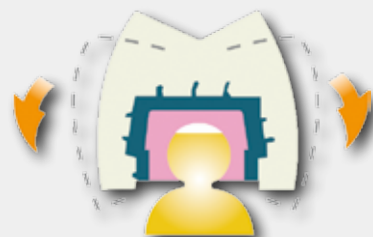
With overdenture prosthetic devices or cases involving edentulous saddles, resiliency can be controlled with a wide range of retentive caps that have various levels of elasticity and retention.



Vertical movement



Rigid retention



Movement in all directions