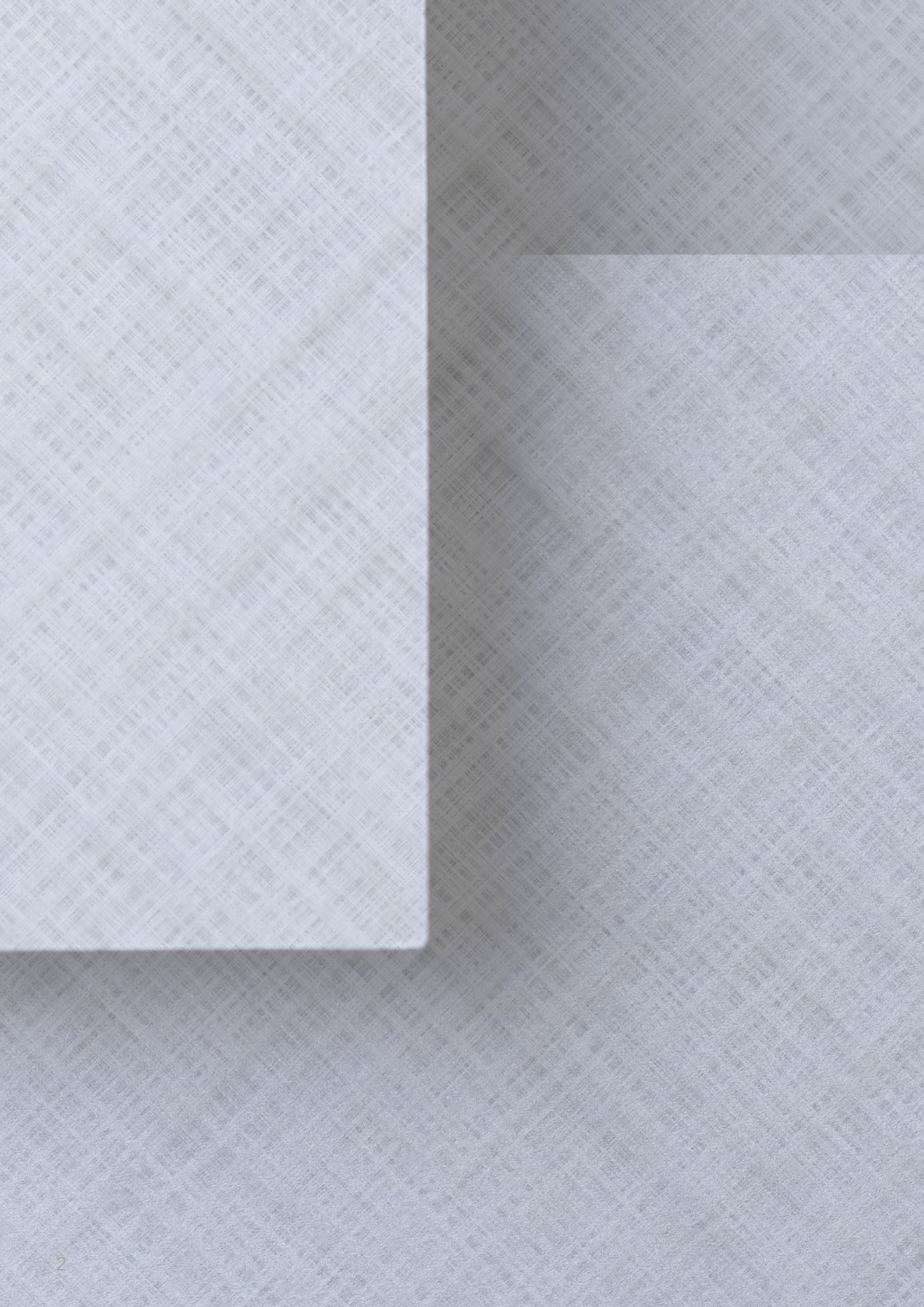




PRODUCT CATALOG

Our fiber expertise is your strength.





PRODUCTS

ENDODONTIC POSTS 6

- DT Light-Post®
- DT Light-Post® Illusion® X-RO®
- Macro-Lock® Post
- Macro-Lock® Post Illusion® X-RO®
- Macro-Lock® Oval Post
- Matchpost®

REINFORCEMENT FIBERS 24

- Quartz Splint™ Unidirectional
- Quartz Splint™ Woven
- Quartz Splint™ Mesh Quartz
- Splint™ Resin

CORECEM PRODUCTS 28

- Corecem® A1 & Illusion®

”

DEDICATED TO INNOVATION

Because innovation, through research and development, is central to our success, RTD re-invests a large percentage of its capital in human resources and equipment for R&D.

Established in 1968 by Dr. Marc Reynaud, Recherches Techniques Dentaires (RTD) developed and commercialized the fiber-reinforced composite post and is the world-wide leader in this field. RTD is certified ISO 9001 / EN 13485, employs engineers, technicians and chemists, and is protected by a number process and design patents.

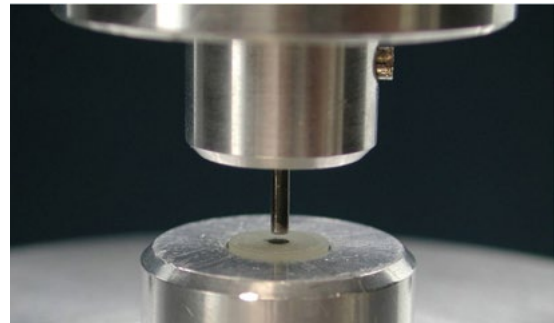
Today, RTD produces several of styles and shapes of translucent and tooth-colored posts, as well as cements and other accessory products for post-core restoration and reinforcement. Tens of millions of RTD posts have been successfully placed, in more than 100 countries, and they have been the subject of over 200 technical publications. Because innovation, through research and development, is central to our success, RTD re-invests a large percentage of its capital in human resources and equipment. The RTD development team includes dentists, engineers, and technicians specializing in dental materials science and chemistry.

In 1996, the expanding RTD relocated to a larger facility in St. Egreve France. The facility has been enlarged, in 2004, 2006 and again in 2007. In 2014, RTD opened a second facility to handle specific manufacturing operations. All aspects of manufacturing and quality control testing are done in-house. RTD's personnel has tripled in recent years.



Multi-disciplinary development

The RTD development team includes engineers and technicians specializing in dental materials science and chemistry. Collaboration between the RTD team and the academic, clinical and scientific communities allows continued innovation, especially in the field of fiber reinforced composite.



Over 50 years' time we have adapted and developed innovative materials, equipment and techniques to exercise complete and caring control of the development process.



FIBER FUNCTION

Reliable bond strength

—

Well documented in long-term clinical trials

—

Feature exclusive technological advances,
including Illusion and X-RO fibers

—

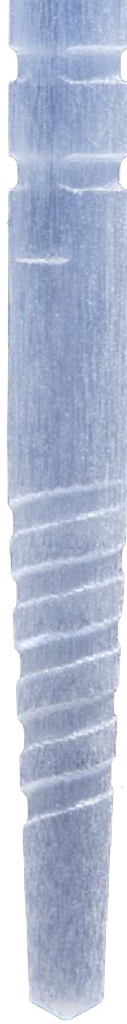
Unsurpassed flexural strength and fatigue resistance

—

Help prevent root fractures and can reinforce
dramatically-weakened teeth

—

Available in various micro-retentive and macro-retentive designs



Why choose our fiber-reinforced endodontic posts?

RTD (Recherches Techniques Dentaires) is the world leader in fiber endodontic posts and fiber composite technology for dentistry. Today, dentists place tens of thousands of posts made by RTD every day.

All RTD fiber posts have an Elastic Modulus close to that of dentin (~18GPa), for a mechanically-harmonious monobloc function that does not predispose to root fracture. They are biocompatible and cannot corrode or “show through” like most metal posts can. The posts are provided in hygienic “blister” packaging, and most versions are color-coded to match the drills. RTD drills are machined to mirror the corresponding post dimensions exactly, but allowing a uniform 30 microns circumferentially, for a low cement thickness.

The DT Light-Post® is an advanced fiber post that adapts to the contours of the prepared or over-prepared canal.

ADVANCED FIBER POSTS

DT LIGHT-POST®

DT LIGHT-POST®

DT LIGHT-POST® ILLUSION® X-RO®



Why use DT Light-Post®?

- Elastic Modulus (15GPa) like dentin, for mechanical compatibility with tooth structure, prevention of root fracture
- Exclusive patented (X-RO) fibers, provide high strength, fatigue resistance and radiopacity (340% of Al), for resistance, peace of mind
- As a fiber-reinforced composite, it cannot corrode and it has passed biologic safety testing
- Double-Tapered (DT) apical section conserves dentin
- The parallel coronal section provides maximum strength in the cervical and restorative zones
- Micro-retentive surface offers push-out retention comparable to parallel metal posts
- Available with patented Illusion technology; to match post-to-drill, and to reduce confusion & ease removal, if necessary

DT LIGHT-POST®



The DT Light-Post® is an advanced fiber post that adapts to the contours of the prepared or over-prepared canal. Each post has two separate apical tapers, based on scientific, anatomical measurements, and a parallel coronal section. In addition, the surface of the post is intentionally roughened to a highly micro-mechanical surface for excellent bonding and long-term retention and durability.

Available in four color-coded sizes, the DT (Double-Tapered) Light-Post® is designed to fit virtually any clinical situation. The intrinsic post colors match the drill markings and help the clinicians distinguish one size from another. With this Illusion Technology, the color disappears within seconds at body temperature, but the color can be reconstituted, if necessary for re-treatment. Introduced in 2001, DT Light-Post® is the subject of over 130 published studies, including long-term clinical trials.

Flexural Strength	
X-RO: 1900 MPa	Standard: 1600 MPa
Fatigue Cycles without Rupture 10 Million*	
Interlaminar Shear Strength 60-75 MPa	

*10 Million cycles = ~20 years' mastication



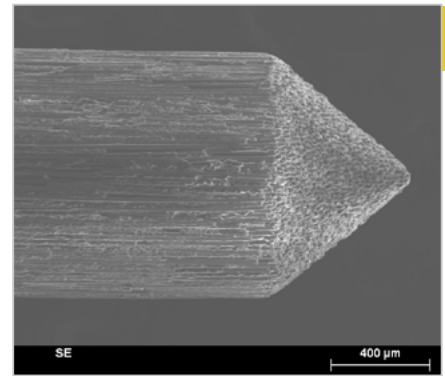
37°C

Through the Illusion Technology, the post color disappears after placement, at body temperature



22°C

The post location and size can be identified by spraying with cold air or water

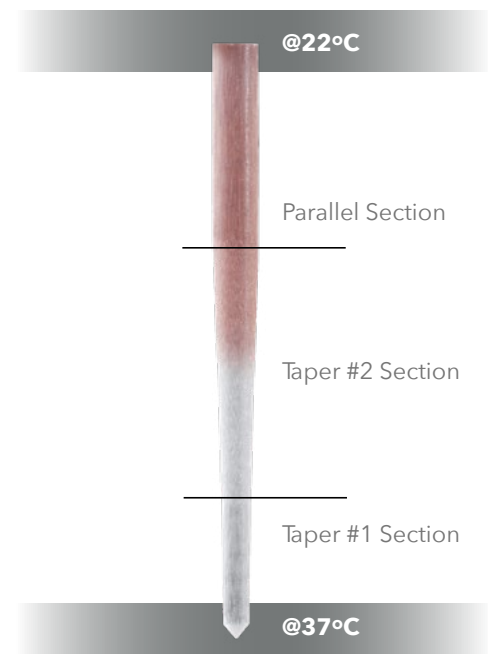


MICRO-MECHANICAL SURFACE

The post surface is machined to a specific roughness to optimize attachment to the resin / cement

Post Diameters (mm)

Size:	.5	1	2	3
∅	1.25	1.52	1.80	2.18
∅	0.8	0.9	1.0	1.2
Starter Drill:	.5			
Finishing Drill:		1	2	3





DT LIGHT - POST® ILLUSION® X-RO® INTRO KIT



DT LIGHT - POST® ILLUSION® X-RO® TRIAL KIT



DT LIGHT - POST® ILLUSION® X-RO® REFILL PACK



DT LIGHT-POST® PRODUCTS

ASSORTMENT PACKAGES

15900002 SYSTEM KIT C

DT Light-Post® Illusion® X-RO® System Kit contains:

- 5 x Posts each: #.5, #1, #2 & #3
- 1 x Universal Starter Drill
- 3 x Finishing Drills #1, #2 & #3
- 1 x Syringe (9G) Corecem
- 10 x Mixing tips
- 10 x Placement Tips
- 1 x Size Selection Card

1590320 INTRO KIT (pictured)

DT Light-Post® Illusion® X-RO® Intro Kit contains:

- 5 x Posts each: # .5, #1, #2 & #3
- 1 x Universal Starter Drill
- 3 x Finishing Drills #1, #2 & #3
- 1 x Size Selection Card

1590301 TRIAL KIT (pictured)

DT Light-Post® Illusion® X-RO® Trial Kit contains:

- 3 x DT Light-Post® Illusion® X-RO® #1 (Red)
- 1 x Universal Starter Drill
- 1 x Finishing Drill #1

REFILL PACKAGES & DRILLS

5 POST PACKS

- 1590350B 5 x DT Light-Post® Illusion® X-RO® Posts #.5 (Black)
- 1590351B 5 x DT Light-Post® Illusion® X-RO® Posts #1 (Red)
- 1590352B 5 x DT Light-Post® Illusion® X-RO® Posts #2 (Yellow)
- 1590353B 5 x DT Light-Post® Illusion® X-RO® Posts #3 (Blue)

10 POST PACKS (pictured)

- 1590310B 10 x DT Light-Post® Illusion® X-RO® Posts #.5 (Black)
- 1590311B 10 x DT Light-Post® Illusion® X-RO® Posts #1 (Red)
- 1590312B 10 x DT Light-Post® Illusion® X-RO® Posts #2 (Yellow)
- 1590313B 10 x DT Light-Post® Illusion® X-RO® Posts #3 (Blue)

ORIGINAL NON-ILLUSION COMPOSITION

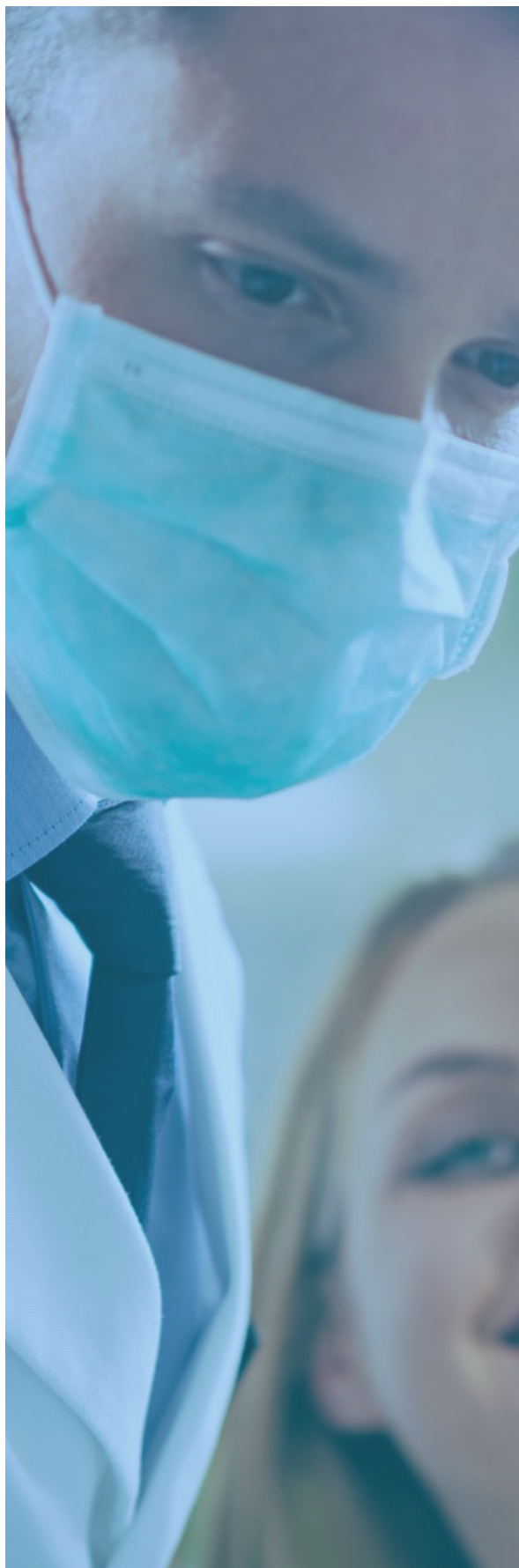
10 POST PACKS

- 1510310B 10 x DT Light-Post® #.5 (Black)
- 1510311B 10 x DT Light-Post® #1 (Red)
- 1510312B 10 x DT Light-Post® #2 (Yellow)
- 1510313B 10 x DT Light-Post® #3 (Blue)

DRILLS

- 1520110 1 x DT Light-Post® Universal Starter Drill #.5 (Black)
- 1520111 1 x DT Light-Post® Finishing Drill #1 (Red)
- 1520112 1 x DT Light-Post® Finishing Drill #2 (Yellow)
- 1520113 1 x DT Light-Post® Finishing Drill #3 (Blue)

MACRO-LOCK® is RTD's self-retentive post, which can be bonded, or placed with self-adhesive or self-etching cements.



FIBER REINFORCED COMPOSITE POST

MACRO-LOCK®

MACRO-LOCK® POST

MACRO-LOCK® POST ILLUSION® X-RO®

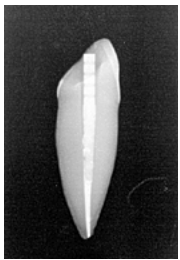
MACRO-LOCK® OVAL POST



Why use Macro-Lock® Posts?

- Elastic Modulus (15GPa) like dentin, for mechanical compatibility with tooth structure, prevention of root fracture
- Exclusive patented (X-RO) fibers, provide high strength, fatigue resistance and radiopacity (340% of Al), for resistance, peace of mind
- As a fiber-reinforced composite, it cannot corrode and it has passed biologic safety testing
- Tapered apical section conserves dentin
- The parallel coronal section provides maximum strength in the cervical and restorative zones
- Flat sides in coronal section to prevent rotation of the core
- Macro-retentive surface offers retention comparable to parallel metal posts
- Available with patented Illusion technology; to match post-to-drill, and to reduce confusion & ease removal, if necessary (See DT Light-Post® page)

MACRO-LOCK® POST



Macro-Lock® is RTD's self-retentive post, which can be bonded, or placed with self-adhesive, self-etching or cements.

It is made from the same material as our famous DT Light-Post®, which is supported by over 130 published studies, including long-term clinical trials.

The Original neutral/ translucent version is also available, with even greater light transmission. Also available in oval shape for very wide flared-oval space.

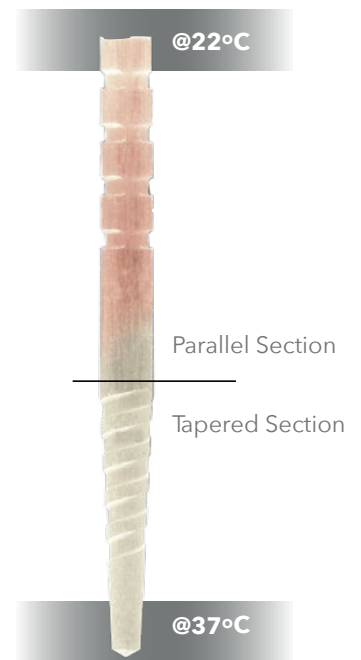
Flexural Strength	
X-RO: 1900 MPa	Standard: 1600 MPa
Fatigue Cycles without Rupture 10 Million*	
Interlaminare Shear Strength 60-75 MPa	

*10 Million cycles = ~20 years' mastication

Post Diameters (mm)

Size:	1	2	3	4	5	6
∅	1.35	1.45	1.65	1.85	2.05	2.20
∅	0.8	0.8	1.0	1.0	1.3	1.3
Starter Drill:	1	1	2	2	2	2
Finishing Drill:	1	2	3	4	5	6

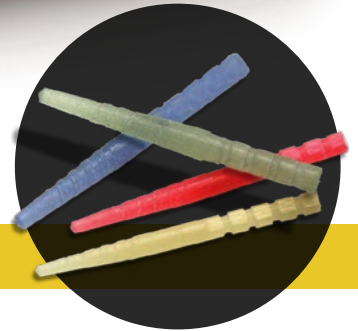
17.5mm





MACRO-LOCK® POST ILLUSION® X-RO® INTRODUCTORY KIT

MACRO-LOCK® POST ILLUSION® X-RO® REFILL PACK



MACRO-LOCK® POST PRODUCTS

ASSORTMENT PACKAGES

4590002 SYSTEM KIT C

Macro-Lock® Post Illusion® X-RO® System Kit C:

- 5 x Posts each: #1, #2, #3 & #4
- 1 x Starter Drill #1
- 1 x Starter Drill #2
- 1 x Each of Finishing Drills #1, #2, #3 & #4
- 1 x Syringe (9G) Corecem
- 10 x Mixing Tips
- 10 x Placement Tips
- 1 x Size Selection Card

OTHER KITS & ACCESSORIES

4590320 INTRODUCTORY KIT (pictured)

Macro-Lock® Post Illusion® X-RO® Introductory Kit:

- 5 x Posts each: #1, #2, #3 & #4
- 1 x Starter Drill #1
- 1 x Starter Drill #2
- 1 x Each of Finishing Drills #1, #2, #3 & #4
- 1 x Size Selection Card

4590302 TRIAL KIT

Macro-Lock® Post Illusion® X-RO® Trial Kit:

- 3 x Macro-Lock® Posts Illusion® X-RO® #2 (Red)
- 1 x Starter Drill #1
- 1 x Finishing Drill #2

REFILL PACKAGES & DRILLS

10 POST PACKS (pictured)

- 4590311B 10 x Macro-Lock® Posts Illusion® X-RO® #1 (Yellow)
- 4590312B 10 x Macro-Lock® Posts Illusion® X-RO® #2 (Red)
- 4590313B 10 x Macro-Lock® Posts Illusion® X-RO® #3 (Blue)
- 4590314B 10 x Macro-Lock® Posts Illusion® X-RO® #4 (Green)
- 4590315B 10 x Macro-Lock® Posts Illusion® X-RO® #5 (Black)
- 4590316B 10 x Macro-Lock® Posts Illusion® X-RO® #6 (Colorless)

ALSO AVAILABLE IN ORIGINAL "NON-ILLUSION" COMPOSITION (WITH THE SAME DIMENSIONS)

- 4510311B 10 x Macro-Lock® Posts #1
- 4510312B 10 x Macro-Lock® Posts #2
- 4510313B 10 x Macro-Lock® Posts #3
- 4510314B 10 x Macro-Lock® Posts #4

STARTER DRILLS:

- 4520120 1 x Macro-Lock® Starter Drill #1
- 4520119 1 x Macro-Lock® Starter Drill #2

FINISHING DRILLS:

- 4520121 1 x Macro-Lock® Finishing Drill #1 (Yellow)
- 4520122 1 x Macro-Lock® Finishing Drill #2 (Red)
- 4520123 1 x Macro-Lock® Finishing Drill #3 (Blue)
- 4520124 1 x Macro-Lock® Finishing Drill #4 (Green)
- 4520125 1 x Macro-Lock® Finishing Drill #5 (Black)
- 4520126 1 x Macro-Lock® Finishing Drill #6 (Colorless)