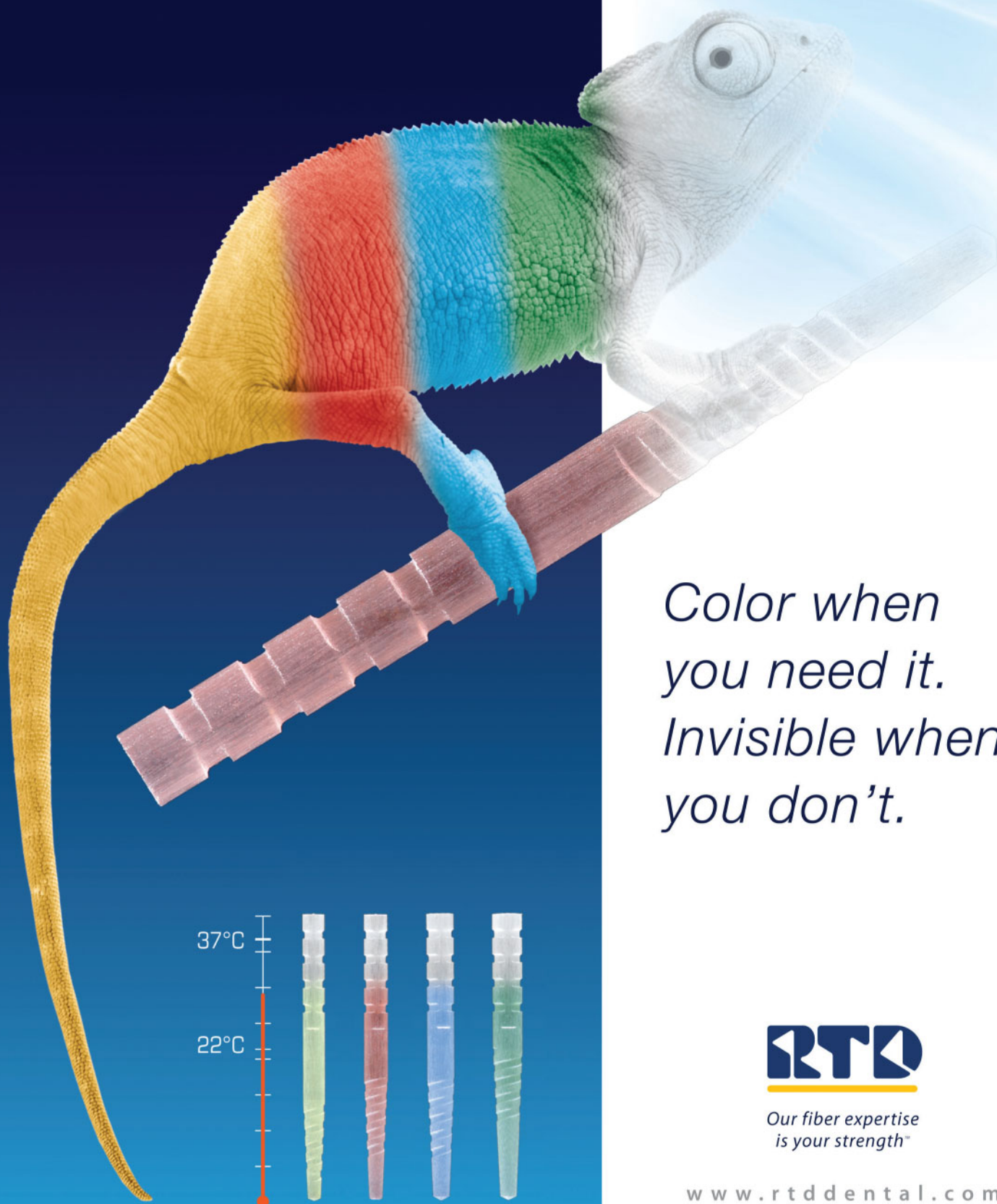


# MACRO-LOCK<sup>®</sup> POST X-RO<sup>®</sup> ILLUSION<sup>®</sup>



*Color when  
you need it.  
Invisible when  
you don't.*



*Our fiber expertise  
is your strength™*

[www.rtdental.com](http://www.rtdental.com)

# MACRO-LOCK POST ILLUSION



## Proven Superior Retention

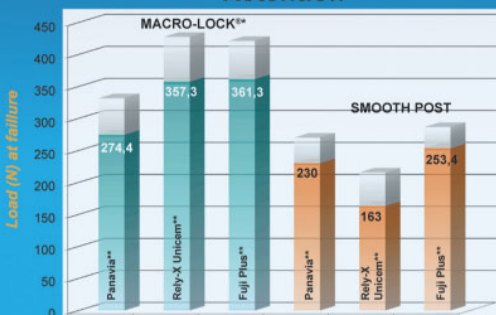
톱니 모양의 Retention Grooves 와 Anti-rotation 기능으로 인해 시멘트와 코어재료의 유지력을 향상시킵니다.

포스트 전체의 표면을 미세하게 거칠게 하여 시멘트의 본딩력을 높여줍니다.

이로 인해 Chair-side 에서 실란 처리를 하지 않아도 높은 유지력을 얻을 수 있습니다.

Tapered 한 근관모양으로 근관에 적용이 용이하며 덴틴을 보호합니다.

### Retention



\*Macro-Lock is a trademark of RTD. \*\* Rely-X Unicem, Fuji Plus and Panavia are not trademarks of RTD.

Retention of quartz fiber posts using different luting cements Baldissara, P Monaco, C., Valandro, L.F. Scotti, R.J Dent Res. Vol88 (Spec. Issue A) Abstract #976, 2009 (www.dentalresearch.org)

**X-RO® Fiber** 는 RTD 가 치과용으로 독자적으로 개발한 특허기술입니다. 이 기술은 실제 임상에서 많은 이점을 제공합니다.

Flexible strength:

1800 - 2000 MPa

Interlaminar shear strength:

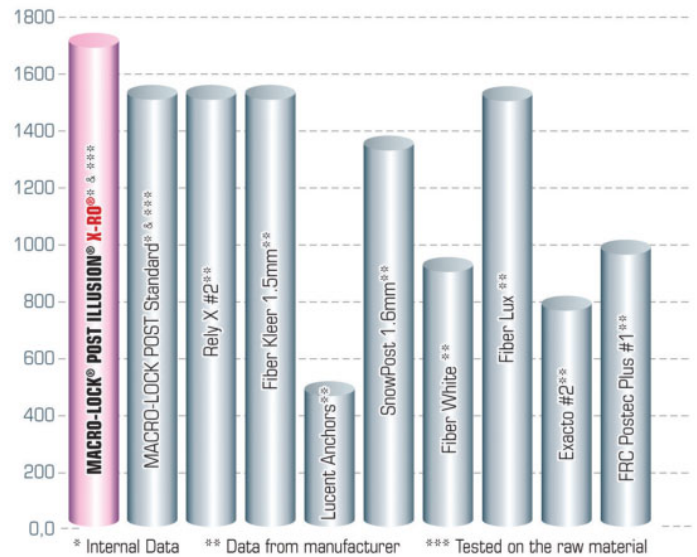
65 - 70 MPa

## Flexural Strength (ISO #4049)

X-RO Fibers는 특허받은 Coupling agent를 이용하여 Fiber 와 Epoxy matrix의 본딩 강도를 높였습니다.

이로 인해 타사의 포스트 보다 굴곡강도가 높습니다.

아래의 그래프는 제조사별 굴곡강도를 나타낸 그래프입니다.

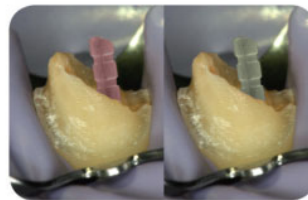


\* Internal Data

\*\* Data from manufacturer

\*\*\* Tested on the raw material

## Patented ILLUSION technology



포스트 전체가 칼라로 되어 있어 사이즈를 쉽게 구별할 수 있으며 전용 드릴을 가지고 있습니다.



근관에 넣게되면 원래의 사이즈 색깔은 사라지고 심미적 색상으로 바뀌게 됩니다. Retreatment 시, Cold air 로 불어주면 다시 원래의 색깔로 돌아와 포스트 사이즈를 쉽게 구별하여 시술을 용이하게 합니다.



발한 독특한 Radiopacifiers 를 가진  
제품을 제공합니다.

Elastic modulus:

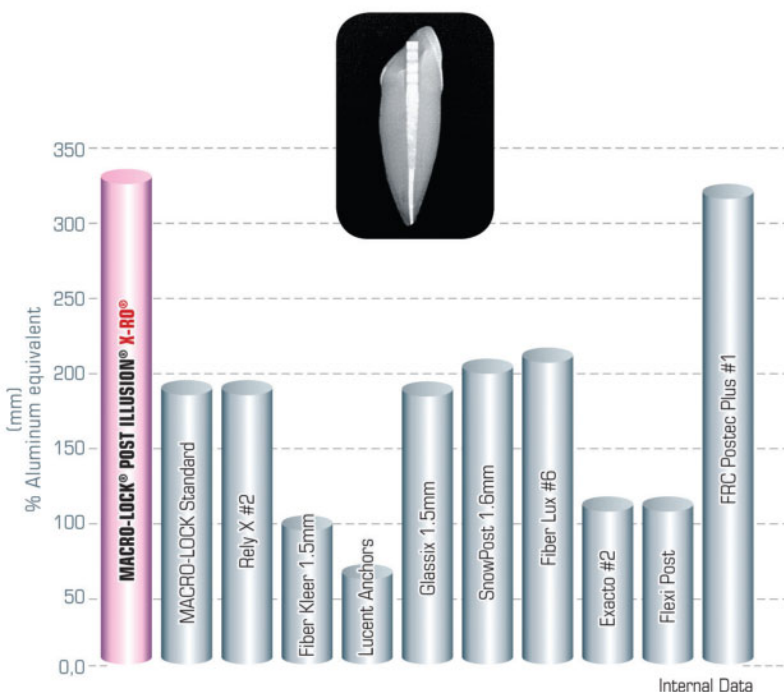
(300): 15GPa,  
same as dentin

Fatigue Resistance:

10,000,000 cycles  
without breaking

## Radiopacity

Macro-Lock X-RO 의 방사선 불투과성 정도는 최소 340% Al. equ.  
(ISO Standard #4049)이며, 포스트 자체의 방사선 불투과성 정도는  
476%(size #1) ~ 828%(size #6) 까지 다양합니다.



## OPINION LEADERS WORLDWIDE



**Dr. Enrique Kogan Frenck**

*Universidad Tecnológica de Mexico, Mexico city,  
Nova Southeastern University College of Dental  
Medicine, Fort Lauderdale, FL, private practice:  
Mexico City.*

"Fiber posts are a reality and a better alternative for the reconstruction of teeth with endodontic treatment. RTD is the creator and the better systems I am recommending... Why not use the best?"



**Dr. Yining Wang**

*Director of Prosthodontics Department,  
School of Stomatology, Wuhan University, China.*

"The validity of fiber post has been confirmed by both of the clinical data and experimental studies. I have been using Macro-Lock fiber post for more than three years. The clinic outcome is excellent. Meanwhile, the mechanical properties of Macro-Lock fiber post have been tested in our studies, experimental or numerical analysis. The quality of Macro-Lock fiber post is outstanding."



**Dr. Manfred Friedman**

*Private Practice, Adjunct Professor, Schulich School  
of Medicine & Dentistry, Univ. of Western Ontario,  
London, Ontario, Canada.*

"I have placed over 500 Macro-Lock posts without a single failure. The tapered shape facilitates minimal removal of tooth structure and ensures a minimal amount cement, which minimizes polymerization shrinkage and micro-leakage. Superior physical properties, along with macro and micro-retention, and anti-rotational features make this my post of choice for extensively broken down teeth."

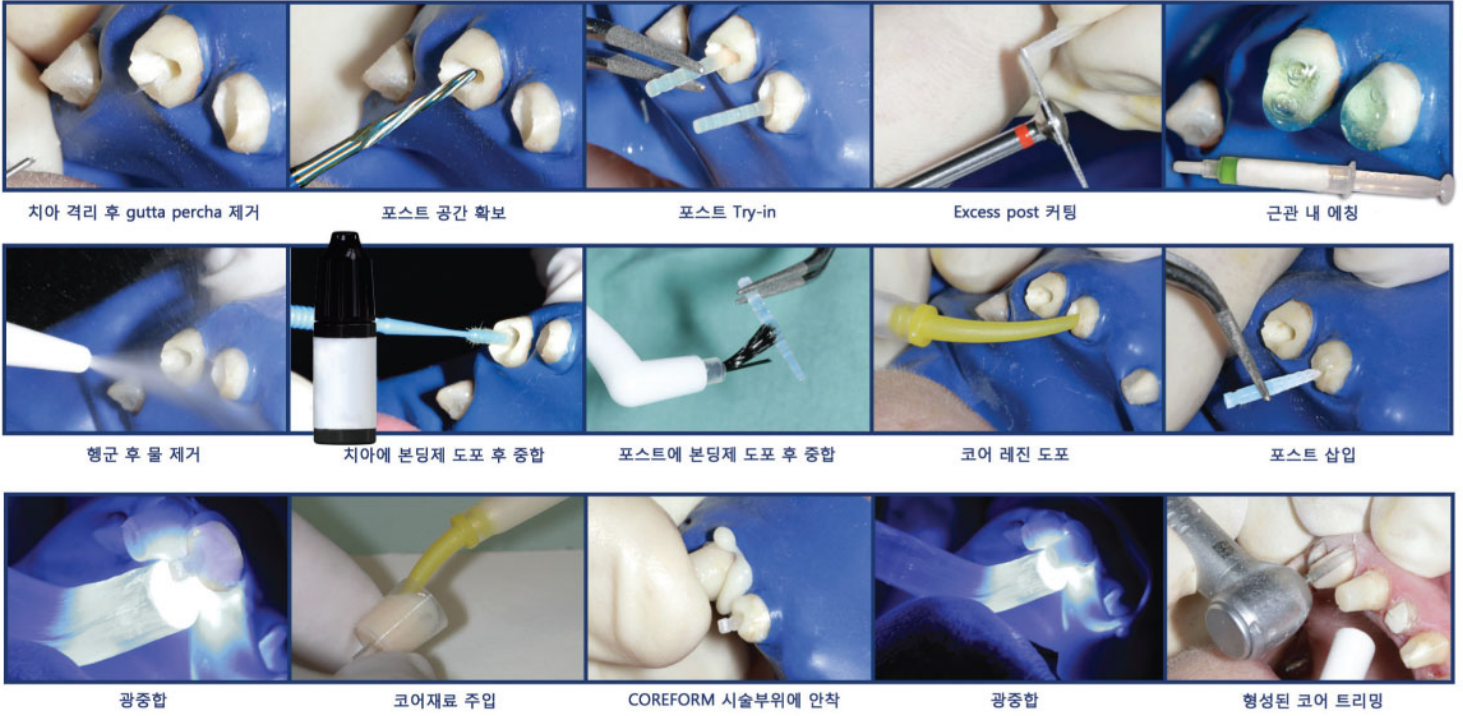


**Dr. Nicolas Cheleux**

*Private Practice, Former Assistante  
of Toulouse University, France.*

"I have used RTD fiber posts regularly for more than 10 years and I have had the opportunity to observe the constant improvement with each generation of fiber post. The replacement of the carbon fibers with quartz fibers has dramatically improved the bio mechanical properties, with a modulus of elasticity closer to the dentin, the adhesion with all of the bonding systems as well as the optical properties of the post, to optimize the aesthetics of the final restoration."

# CLINICAL CASE (Courtesy Dr. B. Duret)



## Refill

### 10 posts

- #1  $\varnothing$  1.35 mm
- #2  $\varnothing$  1.45 mm
- #3  $\varnothing$  1.65 mm
- #4  $\varnothing$  1.85 mm
- #5  $\varnothing$  2.05 mm
- #6  $\varnothing$  2.20 mm

- REF 4590311B
- REF 4590312B
- REF 4590313B
- REF 4590314B
- REF 4590315B
- REF 4590316B

## Intro Kit

- 20 Macro Lock Post Illusion X-RO refills
  - 5 posts - #1  $\varnothing$  1.35 mm
  - 5 posts - #2  $\varnothing$  1.45 mm
  - 5 posts - #3  $\varnothing$  1.65 mm
  - 5 posts - #4  $\varnothing$  1.85 mm
- 2 Starter Drills
  - 1 Drill - #1 (Post refill : #1, #2)
  - 1 Drill - #2 (Post refill : #3~#6)
- 4 Finishing Drills
  - 1 Drill - #1  $\varnothing$  1.35 mm
  - 1 Drill - #2  $\varnothing$  1.45 mm
  - 1 Drill - #3  $\varnothing$  1.65 mm
  - 1 Drill - #4  $\varnothing$  1.85 mm
- 1 Measuring Card REF 4590320



## Trial Kit

- 3 Posts
  - #2  $\varnothing$  1.45 mm REF 4590302
- 1 Starter Drill
  - 1 Drill - #1 (Post refill : #1, #2)
- 1 Finishing Drill
  - 1 Drill - #2  $\varnothing$  1.45 mm



## Reaccess Carbide Kit

- 1 Pilot Drill
- 1 Tungsten Carbide Drill
- REF 1090001



경기도 고양시 덕양구 중양로 542  
 910(행신동, 세신훼밀리타운)  
 Tel. 031-938-2504 Fax. 031-938-2505  
 e-mail. nicelcg@naver.com