CYTEC

Root Post System

CYTEC is designed for roots that are more cylindrical in shape.

High bending strength
Achieved through the use of high tenacity HT Glassfiber, which bonds perfectly with the matrix: HT Glassfiber: 1.400 MPa
(Determined accordingly to EN ISO 178)

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

Secure adhesion due to micro-retentive surface
The pre-formed micro-retentive surface supports the adhesion of the root post with the adhesive system, the composite. The additional mesh-like retentions optimize the bond.

With CYTEC eco,
the careful application of the adhesive system is essential, as CYTEC eco does not have the mesh-like retentions.

Scientifically tested and proven in practice since 2001.
For further information please see our brochure »EXATEC+CYTEC+CONTEC« or visit our website www.hahnenkratt.com

The utmost fatigue and fracture resistance

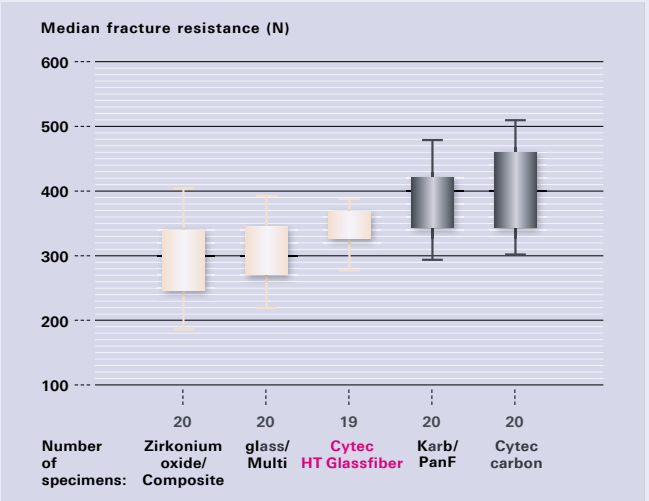
As our HT Glassfiber exhibits high bending strength they are very highly fatigue and fracture resistant. This was proven by the results of comparative scientific studies carried out in-vitro.[1]

During another study, CYTEC specimen attained an even higher fracture resistance value of 509 N (mean), and this, despite the fact that, where the composite tooth transition is concerned, the starting specimen only exhibited a »Perfect Margin before TCML« value of 72%. This value of 509 N was determined after simulating a period of 5 years in situ (TCML 6000 x 5°C/55°C, each 2 min, $1.2*10^6$ x 50 N). In addition, a porcelain crown was fitted to these specimen (ferrule effect).[2]

In comparison: Scientific studies indicate masticatory loading values of 30–80 N for premolars and canines and 150–250 N for incisors.

(1) Dr. med. dent. Katrin Babenhauserheide Untersuchungen zur mechanischen Belastbarkeit und zum Verlauf der Bruchflächen verschiedener Stiftstrumpfaufbausysteme nach künstlicher Alterung. Ergebnisse einer In-vitro-Studie unter standardisierten Bedingungen – Inauguraldissertation zur Erlangung der zahnmedizinischen Doktorwürde der Charité-Universitätsmedizin Berlin, 02.04.2004

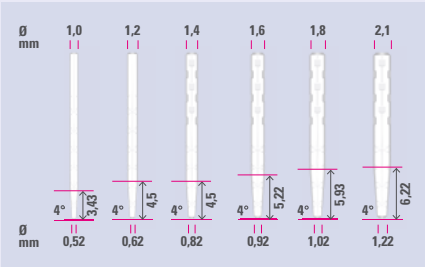
(2) Martin Rosentritt (Dipl. Ing. (FH)
Fracture Strength of Fiber-reinforced and All-ceramic Post and Core Anterior Restorations
Universität Regensburg 03/2003



Root posts made out of Glassfiber:
Highest fracture resistance for CYTEC: 348.8 N (mean value)

Results of a scientific study performed by the Charitè Berlin.[1]

CYTEC

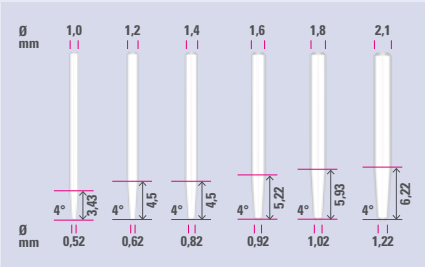


REF 43600 CYTEC, Standard Set
All Sets are shipped in a SHIPPING BOX.

Refill Pack

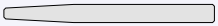
CYTEC Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
			–	red	white	yellow	green	blue	black
Instruments		pack.of	REF						
	Pilot Drill with guiding tip	1	42010						
	Pilot Drill with cutting tip	1	43000						
	Calibration Drill	1		4300D10	43001	43002	4300D16	43003	43004
CYTEC		pack.of	REF						
Standard Set	2 Pilot Drill univ. 6 Calibration Drill 22 Root Post	1	43600						
Test Set	2 Pilot Drill univ. 1 Calibration Drill 3 Root Post	1	43610						
ChangeOverSet	2 Pilot Drill univ. 6 Calibration Drill	1	43600COS						
	Root Post	5		4360D10C5	43601C5	43602C5	4360D16C5	43603C5	43604C5
	Root Post	10		4360D10	43601	43602	4360D16	43603	43604
System Box + Organizer, empty		1	10001 + 10100						

CYTEC eco



REF 43700 CYTEC eco, Standard Set
All Sets are shipped in a SHIPPING BOX.

REF 10001 (empty)

CYTEC eco Root Post System			universal	1,0 mm	1,2 mm	1,4 mm	1,6 mm	1,8 mm	2,1 mm
		Code	–	red	white	yellow	green	blue	black
Instruments		**pack.of**	**REF**						
	Pilot Drill with guiding tip	1	42010						
	Pilot Drill with cutting tip	1	43000						
	Calibration Drill	1		4300D10	43001	43002	4300D16	43003	43004
CYTEC eco		**pack.of**	**REF**						
Standard Set	2 Pilot Drill univ. 6 Calibration Drill 22 Root Post	1	43700						
Test Set	2 Pilot Drill univ. 1 Calibration Drill 3 Root Post	1	43710						
ChangeOverSet	2 Pilot Drill univ. 6 Calibration Drill	1	43700COS						
	Root Post	5		4370D10	43701	43702	4370D16	43703	43704
System Box + Organizer, empty		1	10001 + 10100						