



Home About Edge » Compatibility Products » Resources » Contact Us » Testimonials » Edge Store »

EdgeEndo® Testing

EdgeFile™ with Fire-Wire™ Cyclic Fatigue Testing Study

Introduction

Heat treatment is used to change the deformation and strength characteristics of metals and metal alloys. The purpose of this evaluation was to determine how EdgeEndo's™ EdgeFile™ with "Fire-Wire™" NiTi files compared to various competitor NiTi endodontic rotary files performance when tested for cyclic fatigue.

Materials and Methods

EdgeEndo™ EdgeFile™ 20/06 with "Fire-Wire™" rotary files were compared to Dentsply Tulsa Dental® 20/06 Vortex Blue®, Dentsply Tulsa Dental® 20/06 GT Series X®, Dentsply Tulsa Dental® F1 ProTaper®, Sybron® 20/06 K3®, Sybron® 20/06 K3 XF®, and Brasseler® 20/06 Sequence® Endodontic Files. This study was performed at U.S. Endodontics in Johnson City, TN.

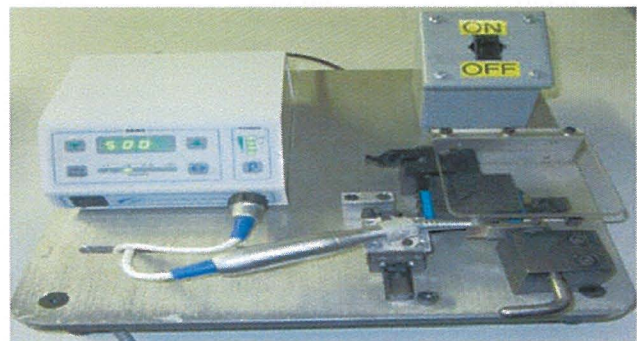


FIGURE 1

Cyclical Fatigue

Thirty of each file listed above and on the chart in the results portion of this study was evaluated for cyclical fatigue.

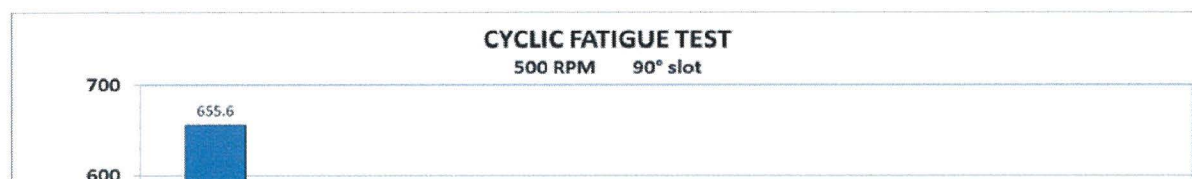
Cyclical fatigue test was performed using a custom test system (Fig. 1) with each file rotated at 500 RPM while 3mm of the file tip was inserted in a test block with a 90° curvature. Time to failure (seconds) was measured for each instrument.

Results

Cyclical Fatigue

EdgeFile™ with "Fire-Wire™" rotary files yielded a greater mean time to failure (MTF) than other industry brands

(See Chart below). EdgeEndo™ "Fire-Wire™" files had the greatest mean time to failure at 655.6 seconds, with the lowest MTF at 80.9 seconds.



GOLD STANDARD EXHIBIT 2017

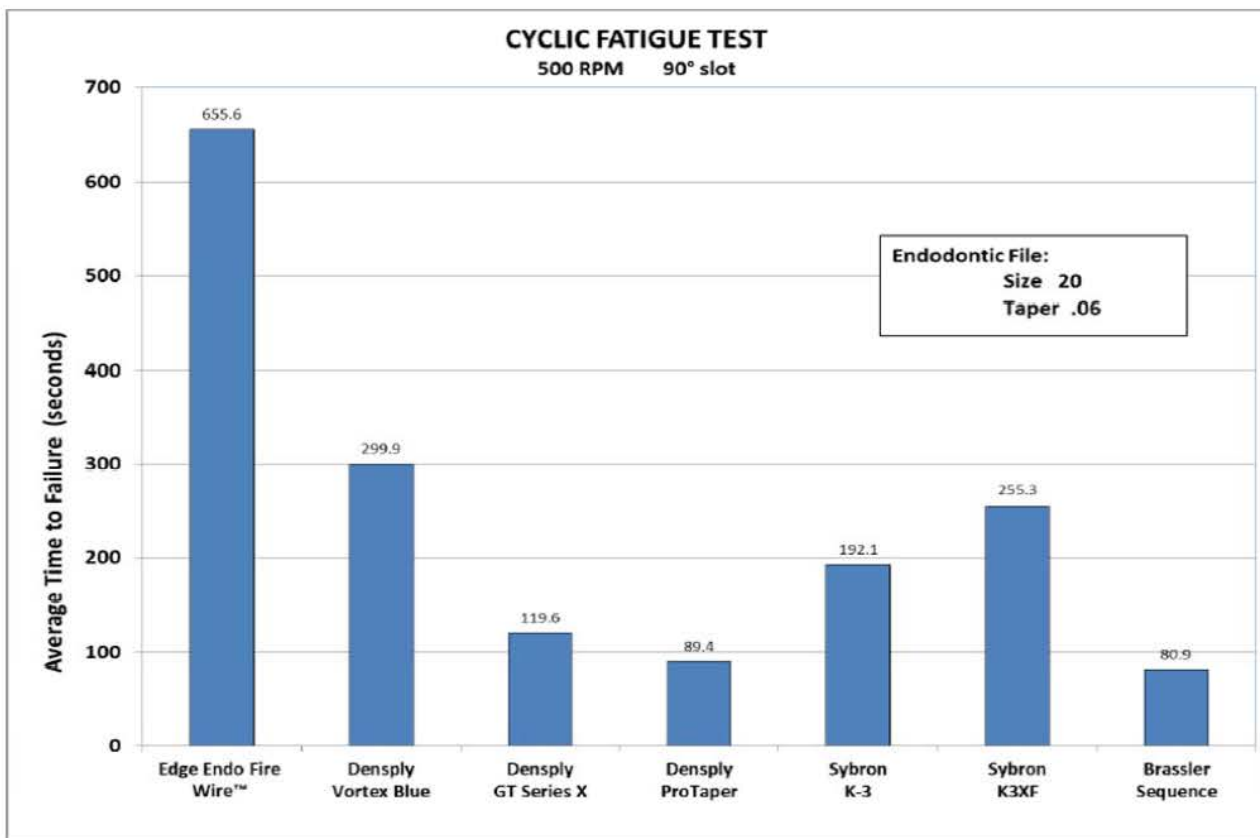


Figure 2

CONTACT US

HOW WE PROVIDE THE IMPOSSIBLE.

REORDERING IS A SNAP

SEARCH EDGE ENDO®

Need Help? Give us a call.
☎ 855-985-3636

⚠ EdgeEndo® does the impossible, by providing endodontic supplies, at half the cost. We can do this, because we make

EdgeEndo® makes reordering easy with 3 simple steps! [Click here to learn more.](#)

Enter keyword here

or [Contact us Here](#).
[Meet EdgeEndo®](#).

most of our products here, in the United States, and we only sell directly to our customers. You don't have to go through the middle man, making it easier for you to get the products you need.



*All registered trademarks are property of their respective owners.
*EdgeEndo ® provides products at "Half the Cost" of the top competitors MSRP.

Meet the EdgeEndo team.

[Click here to view our EdgeEndo ® Testing Page](#).

[View EdgeEndo ® Terms & Conditions](#)

RECENT TWEETS

@EdgeEndo April 1, 2014



It's about to get real!
#EdgeEndo will be at the 2014
AAE Annual Session, April 30-
May 3. Find us at #AAEBooth815
<http://t.co/gdK7i0Wi9r>

(C) 2013 EdgeEndo®