

TIP EVALUATION

1ST 3mm

SIZE	20/04	
FLUTES	3	
SPIRALS PER 16MM	3.3	
HELIX ANGLE	14°	●
CUTTING ANGLE	(-) 30°	●
DEBRIS REMOVING AREA	22%	●
X-SEC. AS % OF CUTTING DIA.	56%	
CORE AS % OF X-SEC. AREA	72%	
ROTATION TO FAILURE	470°	
PEAK TORQUE AT FAILURE	4.76 gf/cm	
60° DEFLECTION	1.42 g	
PLASTIC DEFORMATION	0°	

GT SERIES X[®]
WITH M-WIRE

COMPANY:
DENTSPLY TULSA DENTAL

MANUFACTURER:
DENTSPLY TULSA DENTAL

MADE IN:
USA

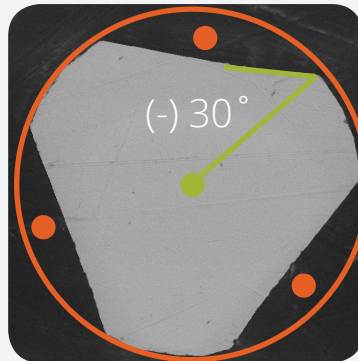
WEBSITE:
TULSADENTALSPECIALTIES.COM

SEM IMAGES

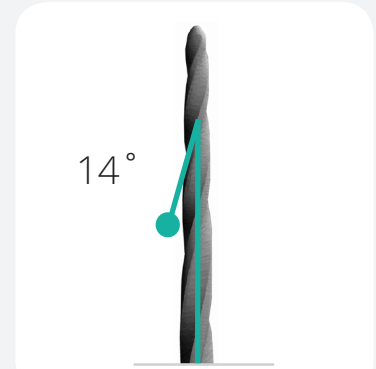
COURTESY OF UT MEMPHIS



TIP



TIP X-SECTION



DISCUSSION:

- The M-wire obviously makes a difference in enhancing its rotation to failure considering the file's large x-section area relative to its circumference. However, this enhancement was accompanied with a diminished resistance to torsional failure.

SEMs are provided by Dr. Franklin Garcia-Godoy, Professor and Senior Executive Associate Dean for Research Director, Bioscience Research Center University of Tennessee Health Science Center

TIP

GT Series-X