



## TIP EVALUATION

1ST 3mm

SIZE .....	25/04	
FLUTES .....	3	
SPIRALS PER 16MM .....	4	
HELIX ANGLE .....	23°	●
CUTTING ANGLE .....	(-) 34°	●
DEBRIS REMOVING AREA .....	45%	●
X-SEC. AS % OF CUTTING DIA. ....	55%	
CORE AS % OF X-SEC. AREA .....	69%	
ROTATION TO FAILURE .....	510°	
PEAK TORQUE AT FAILURE .....	63.08 gf/cm	
60° DEFLECTION .....	2.16 g	
PLASTIC DEFORMATION .....	0°	

## VORTEXBLUE®

COMPANY:

DENTSPLY TULSA DENTAL

MANUFACTURER:

DENTSPLY TULSA DENTAL

MADE IN:

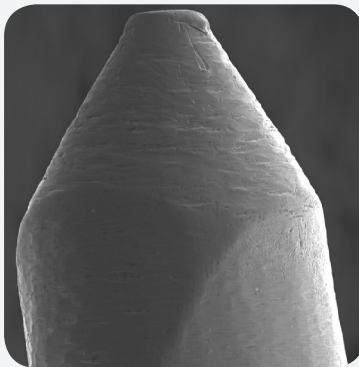
USA

WEBSITE:

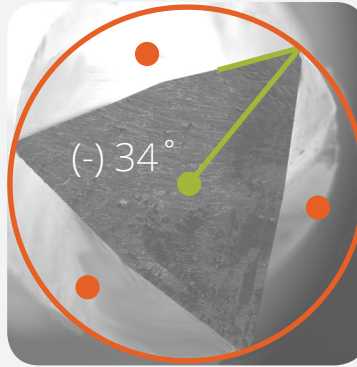
TULSADENTALSPECIALTIES.COM

## SEM IMAGES

COURTESY OF NOVA



TIP



TIP X-SECTION



## DISCUSSION:

- Most interesting from the results of testing is the difference in properties of the Vortex Blue compared to those of the Sequence file; especially since both have the same cross-sectional configuration and helix angles. Contrary to the manufacturer's claims, the Vortex Blue's resistance to torsion was not enhanced, but instead appears to be substantially less than that of the Sequence file.