



TIP EVALUATION

1ST 3mm

SIZE	25/04
FLUTES (asymmetrical).....	3
SPIRALS PER 16MM	7
HELIX ANGLE	31° ●
CUTTING ANGLE	[varies] ●
DEBRIS REMOVING AREA	34% ●
X-SEC. AS % OF CUTTING DIA.....	66%
CORE AS % OF X-SEC. AREA	58%
ROTATION TO FAILURE	270°
PEAK TORQUE AT FAILURE.....	89.87 gf/cm
60° DEFLECTION	3.86 g
PLASTIC DEFORMATION	0°

K3®

COMPANY:
SYBRONENDO

MANUFACTURER:
SYBRONENDO

MADE IN:
MEXICO

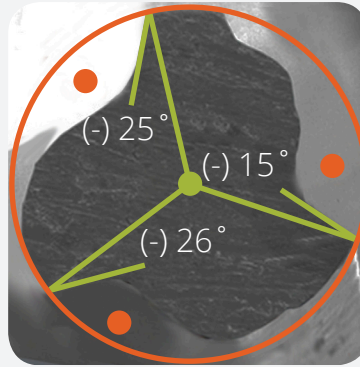
WEBSITE:
SYBRONENDO.COM

SEM IMAGES

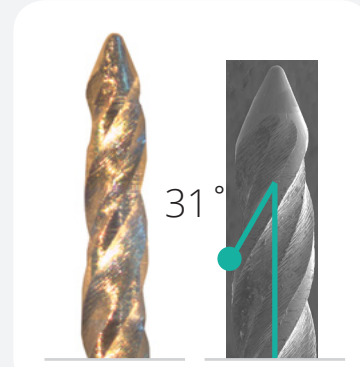
COURTESY OF NOVA



TIP



TIP X-SECTION



DISCUSSION:

- While the K3 has excellent side cutting ability, it is one of the least flexible files. Consequently, the K3 file is best used to enlarge the coronal aspects of a canal or for preparing straighter canals.
- The minimum rotation to failure is noticeable. However, it should be noted that a file rotating at 500 rpm will complete 3 revolutions in less than 1/4 of a second and no file we've tested yet has withstood 3 full rotations without separating.
- Peak torque at failure is a more important consideration and the K3 compares favorably to other files.