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DiATOME

Diamond Knives

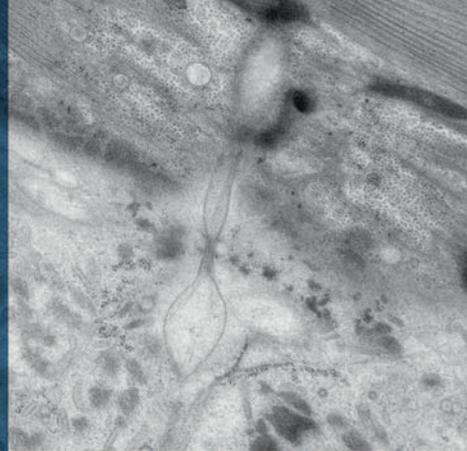
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ultra 35°

Perfect for sectioning relatively soft materials research specimens including metals and polymers, as well as mixed specimens such as polymers filled with nanoparticles, brittle materials such as catalysts, crystals, semiconductors, etc. The ultra 35° knife has demonstrated its usefulness as a standard knife for a majority of applications in both biological and materials research.



Ultrastructure of the roundworm *Caenorhabditis elegans*.
Thomas Müller-Reichert, EM Technology Development, MPI Dresden, and Kent McDonald, Electron Microscopy Laboratory, University of California, Berkeley.

ultra-semi 35°

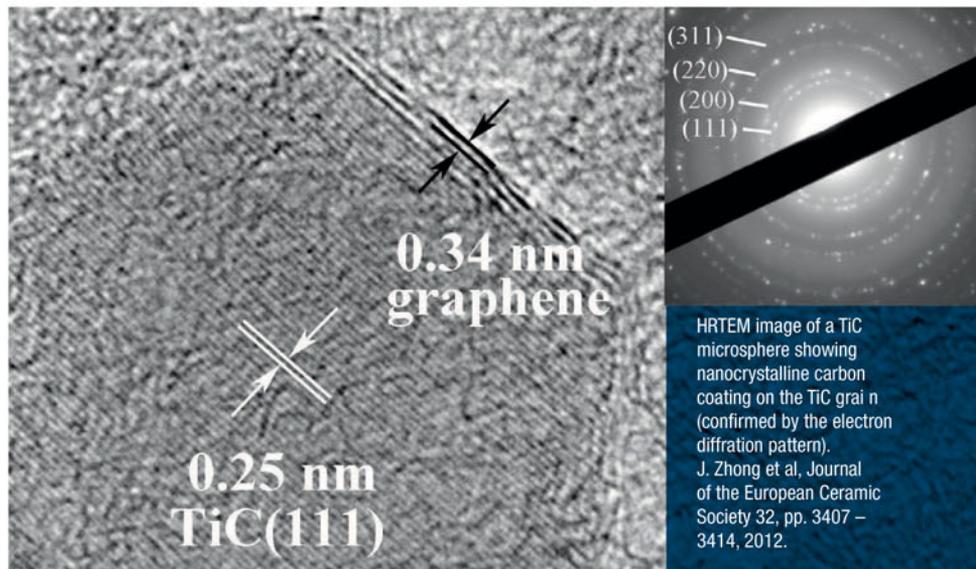
Similar to our ultra 35° 3.0 mm with a greater thickness range (50-200nm). Ideal for alternating sectioning from ultrathin to semithin.

ultra 45°

Acknowledged as the appropriate knife angle for routine sectioning of both biological and materials research specimens, it represents a balanced compromise between section quality and durability.

ultra 35° (dry)

The ultra 35° knife (in the triangular holder) with a thickness range of 30-200nm is used for dry sectioning of epoxy or acrylic resin embedded biological samples, which need to be investigated by element analysis (Ref. Edelmann) and SIMS (Ref. Guerquin-Kern). The gliding of the sections on the dry knife surface is facilitated with the use of our Static Line II ionizer.



HRTEM image of a TiC microsphere showing nanocrystalline carbon coating on the TiC grain (confirmed by the electron diffraction pattern).
J. Zhong et al, Journal of the European Ceramic Society 32, pp. 3407 – 3414, 2012.

DiATOME U.S.

P.O. Box 410 • 1560 Industry Rd. • Hatfield, Pa 19440
Tel: (215) 412-8390 • Fax: (215) 412-8450
email: info@diatomeknives.com • www.diatomeknives.com



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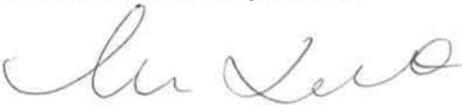
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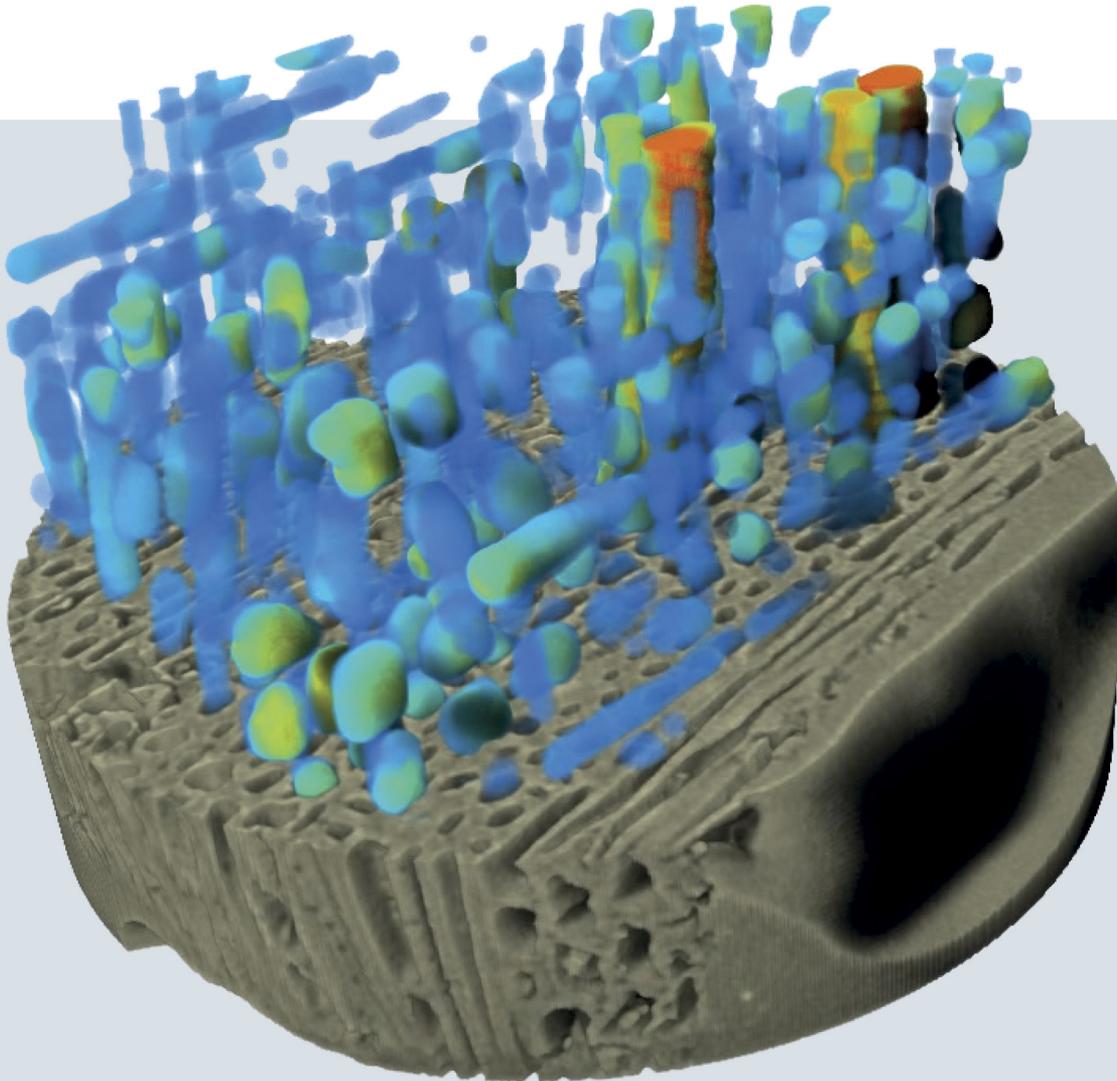
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