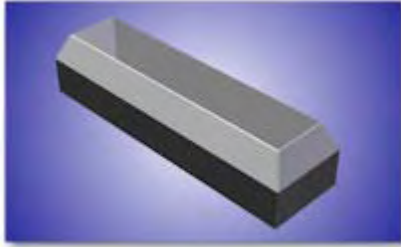


CCSi *Ultra-Life* Specimen Cutting Dies: ASTM D413



Ultra-Life ASTM D413 Specimen Die

CCSi manufactures these high quality *Ultra-Life* Specimen Cutting Dies for the determination of the adhesion strength between plies of fabric bonded with rubber or the adhesion of the rubber layer in articles made from rubber attached to another material, as indicated in [ASTM D413](#) 'Standard Test Methods for Rubber Property – Adhesion to Flexible Substrate'.

The strip specimens, *Type A* and *Type B*, are specified in ASTM D413 only with regard to their width, the length being dependent upon the end user's requirements. Therefore, these dies are manufactured individually to the specifications enumerated by the user. CCSi cutting dies are available with mallet handles, arbor press mounts, or press adapters, which facilitate the user's specific specimen preparation protocol.

The ASTM D413 *Type B* test specimens require that the edges be buffed after cutting. CCSi features the [Emerson Type Rubber Buffer](#) and the [Hung Ta™ Par-Marton Type Specimen Adjuster](#), both of which are suitable for this application and comply with the requirements of [ASTM D3183](#) 'Standard Practice for Rubber – Preparation of Pieces for Test Purposes from Products'.

CCSi *Ultra-Life* Specimen Dies: Quality Manufacturing

CCSi *Ultra-Life* specimen cutting dies are manufactured from homogenous, solid, high carbon content A2 tool steel. Each undergoes multi-axis precision grinding and conventional, plunge, or wire EDM (Electrical Discharge Machining) processes ... producing a world-class, close tolerance die.

Precision grinding and EDM processes ensure true parallelism and multi-plane dimensional accuracy. The quality of materials, design, and engineering serve to provide the highest specimen quality possible, over an extended service life.

Where highly technical manufacturing techniques and processes end ... old-world craftsmanship begins!

CCSi *Ultra-Life* specimen cutting dies are individually serialized, hand-honed, and mirror polished. A protective coating of industrial enamel is applied to the non-cutting surfaces before undergoing a rigorous final inspection.

Each *Ultra-Life* specimen cutting die includes a detailed final report and certification to the applicable standard, traceable to NIST, and compliant with ISO 9001:2000 and ISO/IEC 17025. The specimen dies are placed in a plastic, blow-molded, 'clam shell' style case with a foam lining to protect the die during transport and storage.

CCSi *Ultra-Life* Specimen Dies: Features

The CCSi Specimen Cutting Dies Feature:

- Exclusive *Ultra-Life* cutting edge technology;
- Designed with advanced 3D solid modeling;
- High carbon content A2 tool steel;
- Manufactured using computerized systems and techniques;
- EDM (Electrical Discharge Machining);
- CNC (Computer Numerical Control) 4 axis machining;
- Precision ground;
- Expertly honed;
- Finely polished;
- Protective industrial enamel coating;
- Plastic, foam lined, protective case;
- Traceability of dimensional measurement to NIST;
- Certification to ASTM D413;
- Compliance with ISO 9001:2000 and ISO/IEC 17025;

Available in:

- ASTM D413 Type A and Type B;
- Mallet handle, arbor press mount, & press adapter versions;
- Manufactured to user's specifications.

CCSi *Ultra-Life* ASTM D413 Specimen Cutting Dies: Specifications & Pricing

Part Number	Description	Width ^{NOTE}	Length
CCSi-D413-An	D413 A Die without mounting device	25.0 +3/-0 mm (1.0 +0.125/-0 inch)	User Defined
CCSi-D413-Aa	D413 A Die with arbor press mount		
CCSi-D413-Ap	D413 A Die with press adapter		
CCSi-D413-Am	D413 A Die with mallet handle		
CCSi-D413-Bn	D413 B Die without mounting device	35.0 (1.375 inch) buff to 30 mm	User Defined
CCSi-D413-Ba	D413 B Die with arbor press mount		
CCSi-D413-Bp	D413 B Die with press adapter		
CCSi-D413-Bm	D413 B Die with mallet handle		
Please Request a Quotation for current pricing and delivery.			

NOTE The dimensions for width may also be modified (within the stated tolerance) to the user's specifications. The manufacturing tolerance being ± 0.1 mm (± 0.004 inch) of the overall dimension defined by the user.

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