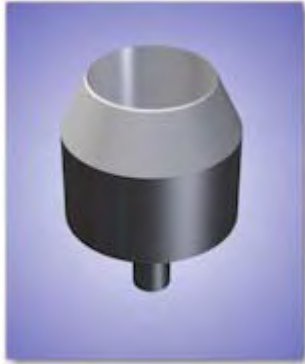


CCSi *Ultra-Life* Specimen Cutting Dies: ASTM D395



Ultra-Life Type 1 Specimen Die

CCSi manufactures these high quality *Ultra-Life* Specimen Cutting Dies for the determination of compression set, under constant force or constant deflection, as indicated in [ASTM D395](#) 'Standard Test Methods for Rubber Property – Compression Set'.

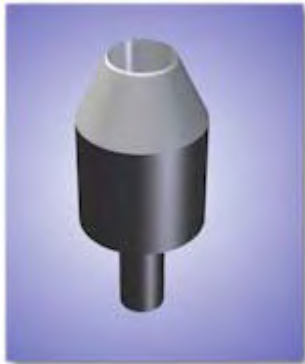
The Type 1 specimen die is used in both ASTM D395 'Test Method A' and 'Test Method B', while the Type 2 specimen die is used solely for 'Test Method B'.

While most CCSi cutting dies are available with mallet handles, arbor press mounts, or press adapters, the ASTM D395 specimen cutting dies are equipped with a special integral 0.375 inch diameter shaft. This facilitates mounting in a drill press, or similar device, as it is necessary to rotate the die while cutting the specimen.

The ASTM D395 Type 1 specimen die may also be employed in [ASTM D575](#) 'Standard Test Methods for Rubber Properties in Compression', Test Method A – Compression Set of a Specified Deflection specimen preparation. However it is not identified directly as a D395 Type 1 specimen die as there is a slight, yet overlapping, dimensional difference between them (refer to the specifications below).

The D395 Type 1 die is directly referred to in [ASTM D1229](#) 'Standard Test Method for Rubber Property – Compression Set at Low Temperatures' for use in preparing test specimens.

CCSi *Ultra-Life* Specimen Dies: Quality Manufacturing



Ultra-Life Type 2 Specimen Die

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 D395;
- Compliance with ISO 9001:2000 and ISO/IEC 17025;
- Includes integral 0.375 inch \varnothing mounting device;

Available in:

- ASTM D395 Type 1 (ASTM D1229);
- ASTM D395 Type 2;
- ASTM D575 Method A.

CCSi *Ultra-Life* ASTM D395 Specimen Cutting Dies: Specifications & Pricing

Part Number	Description	Dimensions
CCSi-D395-T1	Type 1: ASTM D395 Methods A & B	29.0 ± 0.5 mm (1.140 ± 0.020 inch) Ø
CCSi-D575-A	ASTM D575 Method A	28.6 ± 0.1 mm (1.129 ± 0.005 inch) Ø
CCSi-D395-T2	Type 2: ASTM D395 Method B	13.0 ± 0.2 mm (0.510 ± 0.010 inch) Ø
Please Request a Quotation for current pricing and delivery.		

CCSi also manufactures ASTM D395 Type 1 (D575 Method A / D1229) and Type 2 dimensional specimen molds, as well as 'slab' molds of 12.5 ± 0.5 mm (0.49 ± 0.02 inch) in thickness for Type 1 (D575 Method A / D1229) and 6.0 ± 0.2 mm (0.24 ± 0.01 inch) in thickness for Type 2 specimens, and peripheral dimensions to meet specific press requirements. Please visit the CCSi specimen mold pages for more information.

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Corporate Consulting, Service & Instruments, Incorporated

221 Beaver Street • Akron, Ohio 44304 USA

Telephone: 800.742.8535 / 330.376.3600 • Facsimile: 800.229.9329 / 330.376.8500

• WWW.CCSI-INC.COM • WWW.ORECOZONE.NET •