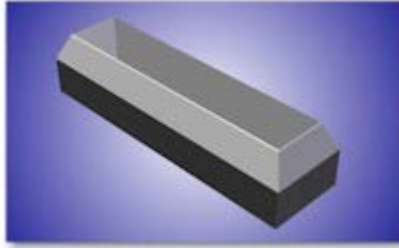


CCSi *Ultra-Life* Specimen Cutting Dies: ASTM D991



Ultra-Life D991 Specimen Cutting Die

CCSi manufactures these high quality *Ultra-Life* Specimen Cutting Dies for the determination of volume resistivity of rubbers used in electrically conductive and antistatic products, as described in [ASTM D991](#) 'Standard Test Method for Rubber Property – Volume Resistivity Of Electrically Conductive and Antistatic Products'.

It is assumed that the surface conductivity is exponentially less, comparatively, than the conductivity through the subject material.

The test specimens, dimensionally specified in ASTM D991, are specific only to their thickness, which varies dependent upon whether the specimen is molded for the purpose of the test, or obtained from an article.

The molded specimens are to be prepared in accordance with [ASTM D3182](#) 'Standard Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets'. CCSi also manufactures the D3182 'standard laboratory mold' required for this purpose.

The specimen width may vary from 10 - 150 mm (0.4 - 6.0 inch) being uniform within $\pm 1\%$, and the length from 70 - 150 mm (2.8 - 6.0 inch), these 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.

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 D991;
- Compliance with ISO 9001:2000 and ISO/IEC 17025.

Available in:

- ASTM D991;
- Mallet handle, arbor press mount, & press adapter versions;
- Manufactured to user's specifications.

CCSi *Ultra-Life* ASTM D991 Specimen Cutting Dies: Specifications & Pricing

Part Number	Description	Width	Length
CCSi-D991-Sn	D991 Die without mounting device	10 - 150 mm (0.4 - 6.0 inch)	70 - 150 mm (2.8 - 6.0 inch)
CCSi-D991-Sa	D991 Die with arbor press mount		
CCSi-D991-Sp	D991 Die with press adapter		
CCSi-D991-Sm	D991 Die with mallet handle		
Please Request a Quotation for current pricing and delivery.			

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