

## CCSi *Ultra-Life* Specimen Cutting Dies: ASTM D1630



*Ultra-Life* D1630 Specimen Die

CCSi manufactures these high quality Specimen Cutting Dies for the determination of the resistance to abrasion of vulcanized rubber and other materials, most commonly used for the soles, heels, uppers, and other components of footwear where exposure to abrasion is a concern, as described in [ASTM D1630](#) 'Standard Test Method for Rubber Property – Abrasion Resistance (Footwear Abrader)'.

The subject material is tested under specific conditions. A reference material is tested under identical conditions, and a relative resistance to abrasion of the subject material (abrasive index) is calculated.

This necessitates accurately prepared specimens, from both the reference material and the subject material. Ideally, the specimens would be prepared using an CCSi specimen mold designed for this purpose. However, the test pieces, from which the specimens are die cut, may also be obtained from articles. This may also require that the test piece be buffed or ground to the specified thickness, prior to die 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 D1630;
- Compliance with ISO 9001:2000 and ISO/IEC 17025.

Available in:

- ASTM D1630 Standard Die.

## CCSi *Ultra-Life* ASTM D1630 Specimen Cutting Dies: Specifications & Pricing

Part Number	Description	Dimensions
CCSi-D1630-An	D1630 Die without mounting device	25.0 x 25.0 mm (0.984 x 0.984 inch)
CCSi-D1630-Aa	D1630 Die with arbor press mount	
CCSi-D1630-AP	D1630 Die with press adapter	
CCSi-D1630-Am	D1630 Die with mallet handle	
Please Request a <a href="#">Quotation</a> for current pricing and delivery.		

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