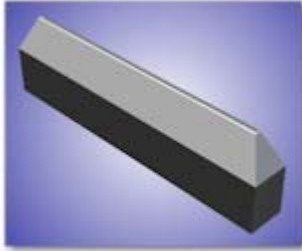


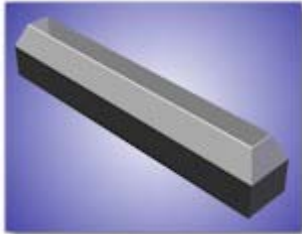
## CCSi *Ultra-Life* Specimen Cutting Dies: ASTM D1460



*Ultra-Life* Die for Apparatus A

CCSi manufactures these high quality Specimen Cutting Dies for the techniques employed to measure the effect of immersion liquids on rubber vulcanizates or rubber-like materials, as described in [ASTM D1460](#) '*Standard Test Method for Rubber Property – Change in Length During Liquid Immersion*'.

This test method is different than [ASTM D471](#) '*Standard Test Methods for Rubber Property – Effects of Liquids*', as the changes in volume are approximated from observed dimensional changes, rather than being directly calculated.



*Ultra-Life* Die for Apparatus B

Although D1460 may be employed with any immersion liquid, it is especially applicable to liquids that are so volatile that they must be maintained under pressure during the period of immersion.

ASTM D1460 defines two dissimilar apparatus (*Apparatus A* and *Apparatus B*), conditions, procedures and test specimens. The *Apparatus A* specimen is specified dimensionally as 100 x 1.6 mm (4.0 x 0.0625 inch), while the the *Apparatus B* specimen measures 150 x 10 - 15 mm (6.0 x 0.4 - 0.6 inch).

## 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 D1460;
- Compliance with ISO 9001:2000 and ISO/IEC 17025.

Available in:

- ASTM D1460 Apparatus A,
- ASTM D1460 Apparatus B.

**CCSi *Ultra-Life* ASTM D1460 Specimen Cutting Dies: Specifications & Pricing**

Part Number	Description	Dimensions
CCSi-D1460-An	<i>Apparatus A</i> Die without mounting device	100 x 1.6 mm (3.94 x 0.063 inch)
CCSi-D1460-Aa	<i>Apparatus A</i> Die with arbor press mount	
CCSi-D1460-Ap	<i>Apparatus A</i> Die with press adapter	
CCSi-D1460-Am	<i>Apparatus A</i> Die with mallet handle	
CCSi-D1460-Bn	<i>Apparatus B</i> Die without mounting device	150 x 10 - 15 mm (5.91 x 0.394 - 0.591 inch) <b>user specified width</b>
CCSi-D1460-Ba	<i>Apparatus B</i> Die with arbor press mount	
CCSi-D1460-Bp	<i>Apparatus B</i> Die with press adapter	
CCSi-D1460-Bm	<i>Apparatus B</i> Die with mallet handle	
Please Request a <a href="#">Quotation</a> for current pricing and delivery.		

Copyright © 2006 CCSi, Inc. • All Rights Reserved • Published February, 2006

**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](http://WWW.CCSI-INC.COM) • [WWW.ORECOZONE.NET](http://WWW.ORECOZONE.NET) •