

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ASTM E345 Type B

Rectangular Strip · Tensile specimen — built to ASTM E345: Standard Test Methods of Tension Testing of Metallic Foil



OVERVIEW

Solid cutting die for cutting Rectangular Strip specimens to ASTM E345. The die is machined from a single piece of steel, hardened and finished with a sharp, precision cutting edge, so it holds its profile when cutting harder plastics from 0 to 5 mm thick.

KEY FEATURES

- Machined from a single piece of steel — no joints or seams in the cutting edge
- Hardened, precision-finished edge for clean, square specimen sides
- Cuts harder plastics, filled compounds and sheet from 0–5 mm thick
- Integral ejector plate releases the specimen after cutting
- Long service life; cutting edge can be re-sharpened

SPECIMEN PROFILE

Overall length (min)	230 mm
Width	12.5 mm
Gauge length	50 mm
Foil thickness	<0.15 mm

Nominal values per ASTM E345; die is cut to the standard's profile.

DIE SPECIFICATIONS

Die construction	One-piece machined steel body
Cutting edge	Hardened, precision-finished
Material thickness	0 – 5 mm
Recommended materials	Rigid & semi-rigid plastics, filled compounds, rubber, sheet & film
Specimen ejection	Integral ejector plate
Press compatibility	Manual, pneumatic & hydraulic sample-cutting presses
Cut profile	Rectangular Strip per ASTM E345

APPLICATIONS

- Aluminum & copper foil
- Battery current-collector foil
- Shim stock
- Packaging foil

ABOUT THE STANDARD

ASTM E345 covers tension testing of metallic foil less than 0.15 mm thick. Type B is a straight-sided rectangular strip that is simple to cut and is used where reduced-section specimens are impractical.

Ordering & customization: Specify the standard and specimen type, die style (ribbon steel or hardened steel), the material and thickness you cut, and your press make/model so we can match the mounting. Custom profiles, multi-cavity dies and nick/notch features are available on request.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same ASTM E345 Type B profile.

Metallic-specimen geometry: confirm sheet material, hardness and thickness at quote. Specifications are typical and may vary by configuration; confirm at time of quote. Refer to the current edition of the standard for specimen tolerances and test procedures. Part ref. UGC-CDH-E345-TB