

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 6892-1 Type 1

Flat Sheet Specimen Type 1 · Tensile specimen — built to ISO 6892-1: Metallic materials — Tensile testing — Part 1: Method of test at room temperature



OVERVIEW

Solid cutting die for cutting Flat Sheet Type 1 specimens to ISO 6892-1. 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

Width of parallel length	12.5 ± 1 mm
Original gauge length	50 mm
Parallel length (min)	75 mm
Free length between grips	87.5 mm
Transition radius (min)	20 mm
Overall length (cutter)	175 mm
Thickness	0.1 to < 3 mm

Nominal values per ISO 6892-1; 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	Flat Sheet Specimen Type 1 per ISO 6892-1

APPLICATIONS

- Steel & aluminum sheet
- Automotive body panels
- Metal strip & foil
- Mill certification

ABOUT THE STANDARD

ISO 6892-1 is the main international method for room-temperature tensile testing of metals, giving yield, tensile strength and elongation. Annex B Type 1 is the non-proportional flat specimen for thin sheet and strip.

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 ISO 6892-1 Type 1 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-ISO68921-AnnexBT1