

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 13934-1

Fabric Strip · Tensile specimen — built to ISO 13934-1: Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method


OVERVIEW

Solid cutting die for cutting Fabric Strip specimens to ISO 13934-1. 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	50 ± 0.5 mm (excluding fringe)
Gauge length	200 ± 1 mm
Gauge length (elongation > 75 %)	100 ± 1 mm
Cut length (cutter)	260 mm
Test speed	100 mm/min (50 mm/min at 100 mm gauge)

Nominal values per ISO 13934-1; die is cut to the standard's profile.

APPLICATIONS

- Woven apparel fabrics
- Technical & industrial textiles
- Coated fabrics
- Upholstery textiles

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	Fabric Strip per ISO 13934-1

ABOUT THE STANDARD

ISO 13934-1 determines maximum force and elongation at maximum force of woven fabrics with a full-width strip gripped across its width. The specimen is ravelled to an exact 50 mm width and tested in warp and weft directions.

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 13934-1 profile.

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-ISO139341-Stripmethod