

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST 34250 Type 4

Tensile-impact dumbbell Type 4 · Tensile impact specimen — built to GOST 34250: Plastics - Determination of tensile-impact strength



OVERVIEW

Solid cutting die for cutting Tensile-impact dumbbell Type 4 specimens to GOST 34250. 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	60 ± 2 mm
Width of ends	10.0 ± 0.2 mm
Width of narrow section	3.0 ± 0.2 mm
Radius	15 ± 1 mm
Recommended thickness	3–4 mm (or sheet thickness)

Nominal values per GOST 34250; 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	Tensile-impact dumbbell Type 4 per GOST 34250

APPLICATIONS

- Plastic films and thin sheet
- Flexible thermoplastics
- Ageing studies
- Materials too tough for Izod

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.

ABOUT THE STANDARD

Small dumbbell broken by a pendulum in tension to measure tensile-impact strength, useful for materials too flexible or thin for Charpy/Izod. Type 4 has a continuous R15 waist with no parallel section.

Also available: Ribbon Steel version
Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same GOST 34250 Type 4 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-GOST34250-T4