

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST R 56800 Type 4

Dumbbell Type 4 (ASTM D638 Type IV) · Tensile specimen — built to GOST R 56800: Polymer composites - Determination of tensile properties of unreinforced and reinforced materials



OVERVIEW

Solid cutting die for cutting Dumbbell Type 4 (ASTM D638 Type IV) specimens to GOST R 56800. 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)	115 mm
Width of ends	19 mm
Width of narrow section	6 mm
Length of narrow section	33 mm
Gauge length	25 mm
Thickness	3.2 ± 0.4 mm (max 4)

Nominal values per GOST R 56800; 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	Dumbbell Type 4 (ASTM D638 Type IV) per GOST R 56800

APPLICATIONS

- Reinforced and unreinforced plastics
- Composite laminates
- Export testing to ASTM
- Material qualification

ABOUT THE STANDARD

Type 4 dumbbell for tensile strength, modulus and elongation of plastics and composites. GOST R 56800-2015 adopts the ASTM D638 specimen family, so Type 4 matches ASTM D638 Type IV.

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 GOST R 56800 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-GOSTR56800-T4