

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST R 56800 Type 1

Dumbbell Type 1 (ASTM D638 Type I) · 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 1 (ASTM D638 Type I) 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)	165 mm
Width of ends	19 mm
Width of narrow section	13 mm
Length of narrow section	57 mm
Gauge length	50 mm
Thickness	3.2 ± 0.4 mm (max 7)

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 1 (ASTM D638 Type I) per GOST R 56800

APPLICATIONS

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

ABOUT THE STANDARD

Type 1 dumbbell for tensile strength, modulus and elongation of plastics and composites. GOST R 56800-2015 adopts the ASTM D638 specimen family, so Type 1 matches ASTM D638 Type I.

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 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-GOSTR56800-T1