

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST 15088

Vicat square · Vicat softening specimen — built to GOST 15088: Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST)


OVERVIEW

Solid cutting die for cutting Vicat square specimens to GOST 15088. 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

Length (min)	10 mm
Width (min)	10 mm
Thickness	3 to 6.4 mm

Nominal values per GOST 15088; 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	Vicat square per GOST 15088

APPLICATIONS

- Thermoplastic grade datasheets
- Heat-resistance screening
- Recycled resin QC
- Molded part verification

ABOUT THE STANDARD

A small flat square is loaded under a 1 mm² flat-tipped needle while heated at a controlled rate. The softening temperature is reached when the needle penetrates 1 mm.

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 15088 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-GOST15088