

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for EN 455-2

Glove tensile dumbbell · Tensile specimen — built to EN 455-2: Medical gloves for single use - Requirements and testing for physical properties


OVERVIEW

Solid cutting die for cutting Glove tensile dumbbell specimens to EN 455-2. 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)	100 mm
Width of ends	16 mm
Width of narrow section	3.0 mm
Length of narrow section	33 mm
Gauge length	25 mm
Thickness	Glove film as supplied

Nominal values per EN 455-2; 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	Glove tensile dumbbell per EN 455-2

APPLICATIONS

- Examination gloves
- Surgical gloves
- Natural latex and nitrile
- Ageing (before/after) force-at-break checks

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.

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-EN4552

ABOUT THE STANDARD

EN 455-2 sets physical requirements for single-use medical gloves, including force at break measured on dumbbells cut from the glove. Specimens are blanked parallel to the glove axis from the palm, back or cuff and pulled at 500 mm/min.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same EN 455-2 profile.