

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 13000-2-F2

PTFE Micro Dumbbell · Tensile specimen — built to ISO 13000-2: Plastics — Polytetrafluoroethylene (PTFE) semi-finished products — Part 2: Preparation of test specimens and determination of properties



OVERVIEW

Solid cutting die for cutting PTFE Micro Dumbbell specimens to ISO 13000-2. 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

Width of narrow section	5 mm
Length of narrow section	12 mm
Thickness	1.5 ± 0.25 mm or 1.0 ± 0.20 mm
Shape	Micro dumbbell

Nominal values per ISO 13000-2; 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	PTFE Micro Dumbbell per ISO 13000-2

APPLICATIONS

- PTFE sheet & skived tape
- Gaskets & seals
- Chemical-process linings
- Bearings & slide pads

ABOUT THE STANDARD

ISO 13000-2 sets how test specimens are prepared from PTFE sheet, rod, tube and tape and how their properties are measured. The Figure 2 micro dumbbell is die-cut for tensile strength and elongation at break of semi-finished PTFE.

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 ISO 13000-2-F2 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-ISO130002-F2