

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for JIS K6400-5 Fig. 3-2

Foam Tensile Dumbbell (Type 1A) · Tensile specimen — built to JIS K6400-5: Flexible cellular polymeric materials — Physical properties — Part 5: Tensile strength and elongation at break



OVERVIEW

Solid cutting die for cutting Foam Tensile Dumbbell (Type 1A) specimens to JIS K6400-5. 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	120 mm
Width of ends	25 mm
Width of narrow section	10 mm
Length of narrow section	40 mm
Gauge length (max)	40 mm
Thickness	10 – 15 mm

Nominal values per JIS K6400-5; 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	Foam Tensile Dumbbell (Type 1A) per JIS K6400-5

APPLICATIONS

- Seating and mattress foam QC
- Automotive interior foam
- Packaging and cushioning foam
- Foam supplier qualification

ABOUT THE STANDARD

JIS K6400-5 determines tensile strength and elongation at break of flexible cellular materials such as polyurethane foam. This smaller dumbbell is used when the sample is too small for the Type 1 specimen.

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 JIS K6400-5 Fig. 3-2 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-JISK64005-F32