

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for EN 60811-3-2 Fig. 1

Large cable dumbbell · Loss of mass specimen — built to EN 60811-3-2: Insulating and sheathing materials of electric cables - Methods specific to PVC compounds - Loss of mass and thermal stability



OVERVIEW

Solid cutting die for cutting Large cable dumbbell specimens to EN 60811-3-2. 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)	75 mm
Width of ends	12.5 ± 1 mm
Width of narrow section	4.0 ± 0.1 mm
Length of narrow section	25 ± 1 mm
Gauge length	20 mm
Max. thickness	2.0 mm

Nominal values per EN 60811-3-2; 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	Large cable dumbbell per EN 60811-3-2

APPLICATIONS

- PVC insulation compounds
- PVC sheathing compounds
- Heat ageing loss-of-mass
- Cable type approval

ABOUT THE STANDARD

Cut from insulation or sheath of the cable after any ridges are removed, this dumbbell is used for loss-of-mass determination after heat exposure of PVC compounds. The large dumbbell (4 mm x 25 mm, ISO 37 Type 2 style) is preferred when the sample is wide enough.

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 EN 60811-3-2 Fig. 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-EN6081132-F1