

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for EN 12230

Sports surface tensile dumbbell · Tensile specimen — built to EN 12230: Surfaces for sports areas - Determination of tensile properties of synthetic sports surfaces



OVERVIEW

Solid cutting die for cutting Sports surface tensile dumbbell specimens to EN 12230. 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	25 mm
Length of narrow section	55 mm
Shape	Large dumbbell
Thickness	Full layer thickness, up to 25 mm (Method 1)

Nominal values per EN 12230; 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	Sports surface tensile dumbbell per EN 12230

APPLICATIONS

- Polyurethane athletic tracks
- Rubber-crumb elastic layers
- Shockpads for synthetic turf
- Prefabricated sports flooring

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.

ABOUT THE STANDARD

EN 12230 specifies tensile test methods for materials used as sports surfaces, elastic layers and shockpads, both prefabricated and cast in situ. A large dumbbell is used so that coarse, granular structures such as rubber-crumb layers are represented fairly.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same EN 12230 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-EN12230