

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST 6433.3

Breakdown disc · Dielectric strength specimen — built to GOST 6433.3: Solid electrical insulating materials - Methods of determination of electric strength at AC voltage of 50 Hz



OVERVIEW

Solid cutting die for cutting Breakdown disc specimens to GOST 6433.3. 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

Diameter	100 mm
Allowed diameter range	25 to 150 mm
Upper / lower electrode (plastics)	25 mm / 75 mm
Thickness variation (max)	2 % (≥ 0.5 mm)

Nominal values per GOST 6433.3; 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	Breakdown disc per GOST 6433.3

APPLICATIONS

- Insulating sheet and laminates
- Cable and wire compounds
- Electrical-grade elastomers
- Transformer insulation

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

Flat disc is placed between plate electrodes and voltage at 50 Hz is raised until breakdown to give electric strength. A 100 mm disc fits the preferred 25/75 mm electrode pair with margin against flashover.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same GOST 6433.3 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-GOST6433.3