

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST 7912

Brittleness strip · Low-temperature brittleness specimen — built to GOST 7912: Rubber - Method for determination of temperature limit of brittleness


OVERVIEW

Solid cutting die for cutting Brittleness strip specimens to GOST 7912. 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

Length	25 to 45 mm
Width	6.0 ± 0.5 mm
Thickness	2.0 ± 0.2 mm

Nominal values per GOST 7912; 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	Brittleness strip per GOST 7912

APPLICATIONS

- Cold-climate seals
- Automotive rubber parts
- Compound low-temperature screening
- Aerospace elastomers

ABOUT THE STANDARD

Narrow strips are clamped as cantilevers, chilled and struck to find the lowest temperature at which the rubber does not crack. Width is set by the cutter and the long axis follows the calendaring direction.

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 GOST 7912 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-GOST7912