

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for NBR 15557 Fig. 4

Angle tear specimen · Tear specimen — built to NBR 15557: Inner tubes for tyres - Requirements and test methods



OVERVIEW

Solid cutting die for cutting Angle tear specimens to NBR 15557. 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	100 mm
Width	19 mm
Included angle	90°

Nominal values per NBR 15557; 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	Angle tear specimen per NBR 15557

APPLICATIONS

- Tyre inner tubes
- Butyl and natural rubber compounds
- Homologation testing (Brazil)
- Incoming compound QC

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

Right-angle tear specimen used to measure tear resistance of inner-tube rubber. Tear starts at the 90° vertex under tensile loading.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same NBR 15557 Fig. 4 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.
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