

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 34-1 Fig. 2

Unnicked Angle Tear Specimen · Tear specimen — built to ISO 34-1: Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces


OVERVIEW

Solid cutting die for cutting Unnicked Angle Tear specimens to ISO 34-1. 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
Angle at tear point	90°
Nick	None (unnicked)
Recommended thickness	2.0 ± 0.2 mm

Nominal values per ISO 34-1; 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	Unnicked Angle Tear Specimen per ISO 34-1

APPLICATIONS

- O-rings & seals
- Automotive hoses & belts
- Tire compounds
- Molded elastomer parts

ABOUT THE STANDARD

ISO 34-1 covers tear-strength measurement of rubbers using trouser, angle and crescent test pieces. The unnicked angle piece concentrates stress at a 90° inside corner so the force to initiate and propagate a tear can be measured.

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 ISO 34-1 Fig. 2 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-ISO341-F2