

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ASTM D4966

Disc · Abrasion specimen — built to ASTM D4966: Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)


OVERVIEW

Solid cutting die for cutting Disc specimens to ASTM D4966. 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

Specimen diameter	38 mm
Abradant diameter	140 mm
Foam backing diameter	38 mm
Specimen thickness	≤3 mm

Nominal values per ASTM D4966; die is cut to the standard's profile.

APPLICATIONS

- Upholstery fabrics
- Apparel textiles
- Automotive interior fabrics
- Coated & technical fabrics

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	Disc per ASTM D4966

ABOUT THE STANDARD

ASTM D4966 measures the abrasion resistance of textile fabrics by rubbing them against a standard abradant in a Lissajous pattern on a Martindale tester. The small disc is mounted in the specimen holder over foam backing.

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 ASTM D4966 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-D4966