

Compression Set Clamping Device for Rubber

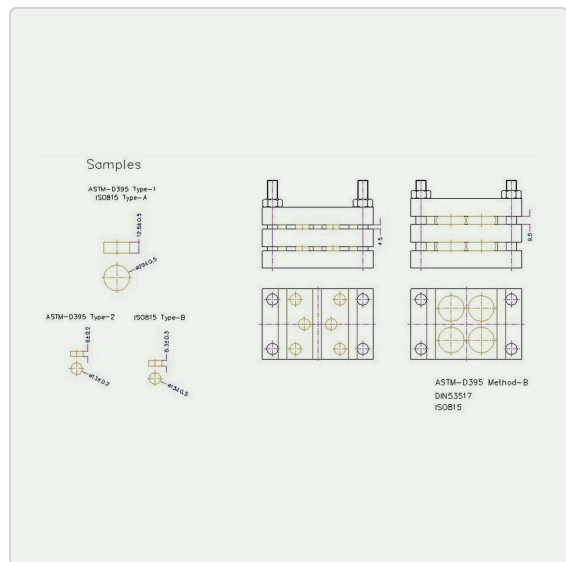
Built to ISO 815-1 — Rubber, vulcanized or thermoplastic — Determination of compression set — Part 1: At ambient or elevated temperatures

OVERVIEW

Bolted multi-plate clamping device for compression set testing of rubber discs. Test pieces are placed between ground steel plates with spacer stops and the plates are bolted down to the spacer height, holding a fixed compression while the assembly is aged at ambient or elevated temperature.

KEY FEATURES

- Ground, parallel steel plates for uniform compression
- Spacer stops set compression for Type A and Type B test pieces
- Multiple test pieces compressed per level for statistical results
- Two-tier stack doubles capacity in one oven footprint
- Corrosion-resistant construction for elevated-temperature ageing



TECHNICAL SPECIFICATIONS

Test method	Compression set at constant strain
Test type / loading	Fixed-deflection compression, bolted clamp
Specimens	Type A Ø29 × 12.5 mm and Type B Ø13 × 6.3 mm discs
Compression	25 % via spacers; approx. 9.5 mm and 4.5 mm
Fixture material	Ground stainless or plated steel plates
Contact surfaces	Ground, polished plate faces
Clamping	Bolted tie rods with nuts
Use	Bench and oven use; no load frame required

APPLICATIONS

- O-rings, seals and gaskets
- Vulcanized rubber compounds
- Thermoplastic elastomers
- Heat-ageing and sealing performance studies

ABOUT THE STANDARD

ISO 815-1 specifies methods for determining the compression set of vulcanized and thermoplastic rubbers at ambient or elevated temperature. A cylindrical test piece is compressed by a constant strain, usually 25 %, held for a set time and temperature, then released. The unrecovered thickness, as a percentage of compression applied, is reported as compression set.

Ordering & customization: Specify test piece type (A or B), number of test pieces, compression ratio and maximum ageing temperature when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO815-1-CP