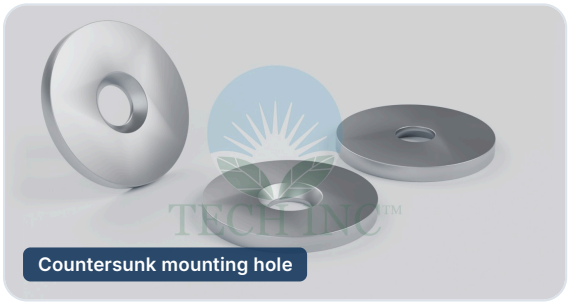
PRODUCT DATASHEET

Flush Disc Corrosion Coupon

Pre-weighed, serial-numbered carbon steel disc coupon for flush disc holders of 2 in high-pressure access fittings

Product page





Countersunk mounting hole

OVERVIEW

The Tech Inc. Flush Disc Corrosion Coupon is a pre-weighed carbon steel disc that is exposed to the process on a flush disc coupon holder and later removed, cleaned and re-weighed. The mass lost over the exposure period gives the average corrosion rate, and the exposed face shows the form of attack; mounted flush with the pipe wall, the coupon sees the flow regime of the wall itself and leaves the bore clear for pigging.

TYPICAL DESIGN DATA

Diameter	31.8 mm (1.25 in), ±0.13 mm
Thickness	3.18 mm (0.125 in), ±0.13 mm
Mounting hole	7.92 mm (0.312 in), central, countersunk 82° on one face
Exposed surface area	16.1 cm² (2.5 sq in) nominal when mounted
Material	Carbon steel UNS G10180 (AISI/SAE 1018), annealed, with EN 10204 type 3.1 mill certificate
Surfaces	Faces ground; edge and hole machined; no sheared or punched surfaces
Weighing	Initial weight recorded in grams to four decimal places; about 18 g

MODELS AND CAPACITIES

- **TI-CC-D-G10180** – flush disc coupon in carbon steel UNS G10180 (AISI 1018), ground finish, pre-weighed and serial-numbered

Other alloys are made to order by UNS number.

ORDERING CODE

Example **TI-CC-D-G10180**: **D** flush disc; **G10180** alloy, UNS number (1018 mild steel).

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** other alloys by UNS number; other disc sizes.

KEY ADVANTAGES

- **Ready to install** – degreased, weighed and sealed; open the envelope at the point of installation
- **Traceable** – unique serial number on the coupon, the envelope and the certificate
- **No cold-worked edges** – ground faces and machined edge, so the coupon corrodes like the pipe
- **Pigging-friendly** – sits flush with the pipe wall

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

How to cite: Flush Disc Corrosion Coupon (model TI-CC). Tech Inc., Vaughan, Ontario, Canada. www.techincresearch.com/product-page/flush-disc-corrosion-coupon

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.