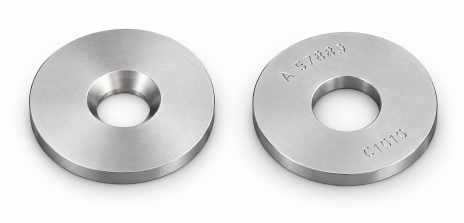
Disc (Flush) Coupons

Precision Flush-Mounted & Multi-Point Corrosion Monitoring Specimens

As an authorized Metal Samples distributor, Imotron supplies precision-machined Disc (Flush) Coupons designed for flush-mounted pipe wall monitoring, high-pressure access systems, and multi-specimen test racks. The specifications below represent the most common standard configurations; custom sizes, specialty alloys, and special mounting geometries are available upon request.



Standard Disc (Flush) Coupon Geometries — Solid, Straight-Through Hole & Countersunk Flush-Mount Styles

1. Standard Disc Coupon Styles & Dimensions

P/N (Style)	Size (Diameter × Thickness)	Hole Diameter & Application Notes	Area (Sq. In.)
CO123	1.25" × 0.125"	None (Solid disc specimen)	2.95
CO141	1.25" × 0.125"	0.500" through-hole	2.55
CO142	1.25" × 0.125"	0.270" (Countersunk — typically used for flush-mount applications)	2.69
CO150	1.50" × 0.125"	0.400" through-hole	3.87
CO220	1.25" × 0.125"	0.375" through-hole	2.72
CO254	1.00" × 0.125"	0.375" through-hole	1.74
CO480	1.25" × 0.062"	0.375" through-hole	2.48
CO826	1.50" × 0.125"	0.375" through-hole	3.90
CO855	1.25" × 0.125"	0.250" through-hole	2.85

2. Standard Alloys, Finishes & Ordering Options

Configuration Parameter	Available Standard Options
Standard Alloys	C1010 Carbon Steel (UNS G10100), C1018 Carbon Steel (UNS G10180), 304L SS (UNS S30403), 316L SS (UNS S31603), Lead (UNS L50050), Aluminum 1100 (UNS A91100), C276 (UNS N10276), Alloy 625 (UNS N06625), CDA110 (UNS C11000), CDA443 (UNS C44300), or Customer Supplied Material (sheet, plate, pipe wall, or other forms).
Surface Finishes	Glass Bead Finish, Coarse Grit Blasted, Sanded (120 Grit), Double Disc Ground, Lapped, or custom surface finish upon request.

Configuration Parameter	Available Standard Options
Identification Marking	None; Sequence; Sequence & Alloy; or Sequence, Alloy & Lot # (assigned by Metal Samples and traceable to the mill heat number).
Weighing Option	Supplied **Weighed** (cleaned, preweighed on an electronic scale, and individually packaged) or **Unweighed**.

Post-Exposure Coupon Analysis Service: Once coupons have been exposed in your process system for the scheduled monitoring period, return them to Metal Samples for certified gravimetric weight-loss analysis to determine accurate mils-per-year (MPY) corrosion rates and localized pitting assessments.

Order Standard or Custom Disc (Flush) Coupons & Holders

Contact Imotron Instruments with your required part number, alloy, surface finish, marking format, and flush-mount coupon holder requirements.