

Ring Surface Polarization Coupon

The Ring Surface Polarization Coupon (also known as an annular or encircling coupon) is an advanced cathodic protection (CP) monitoring probe. Unlike traditional flat coupons, the ring coupon is designed to surround the pipeline or structure, providing a more uniform current density distribution and minimizing edge effects that can skew potential measurements.

KEY FEATURES

1. Minimized Edge Effects
2. Uniform Current Distribution
3. IR-Drop Free Measurements
4. Galvanic Corrosion Assessment
5. Flexible Installation



PRODUCT SPECIFICATIONS

Parameter	Typical Options	Remarks
Ring Substrate	Q235/Q345/X52/X60/X65/X70	Can be customized
Exposed Slot Area	2.5-7.6 cm ²	The actual wetted/active area defined by the insulating sleeve; critical for current density calculations
Total Ring Area	90-280cm ²	Entire metallic surface of the ring
Ring Width (axial length)	20-50mm	Typical width of the ring along the pipe axis
Ring Thickness	3-6mm	Ensures mechanical strength and durability
Encapsulation /Housing	Acrylic sleeve or PVC	Control the exposed area and shield the back and sides

PRODUCT SPECIFICATIONS

1. Buried Long-Distance Pipelines
2. High-Resistivity Soils
3. Dissimilar Metal / Coating Evaluation
4. Laboratory Soil-Box Testing
5. Stray Current Monitoring
6. Tank Bottom Plates