

GROUNDING PRODUCTS

Applications

Zinc Grounding Cells are used for AC Mitigation. This is used to bleed off AC from the structures, which are subject to induced AC. Zinc Grounding cell can be installed at high voltage O/H crossing or parallelism locations.

Information

Zinc Grounding Cells consist of one, two or four Standard Zinc electrodes separated with 1" Insulating Spacers (for more than 1 electrode). Nominal resistance of a two electrode Grounding Cell in wet area is 0.2 to 0.6 Ohm. Nominal Resistance of a four electrode cell is one fourth to one half that of a two electrode cell. The Grounding Cells are packed in standard backfill (75% Gypsum, 20% Bentonite and 5% Sodium Sulphate) either in a unit of one, two or four.

Composition (ASTM B 418 TYPE 1)

ELEMENT	CONTENT(%)
Cu	0.005 max
Al	0.10 - 0.50
Fe	0.005 max
Cd	0.025 to 0.07
Pb	0.006 max
Zn	Remainder
Potential	-1.05 Volts w.r.t Ag / AgCl
Capacity	780 amps Hr./Kg.

Zinc grounding cells help to bleed off unwanted voltages. They reduce the danger of shock on a steel structure, arcing and burning of insulated joints. Zinc grounding cells form an unavoidable part of any induced AC power mitigation, protection of IJ's and IF's, earthing of a structure, etc.

Polarization Cell Replacement (PCR)

PCR is a solid-state device designed to simultaneously provide DC decoupling and AC continuity/grounding when used with cathodically protected structures, such as pipelines, tanks, grounding systems, and cable casings. The PCR has very high AC fault current and lightning surge current ratings. Polarization cell replacement (PCR) are used in conjunction with grounding cells.

Isolation Flange Kits and Surge Arrestor

Isolation Flange Kits are used in flanges to isolate the protected and un-protected sides of the pipeline. It consists of a non-metallic gasket, washer, sleeve and metallic washer. Surge Arrestors are used to bypass the surges between isolated structures and protect the insulating materials.

Surge Arrestor



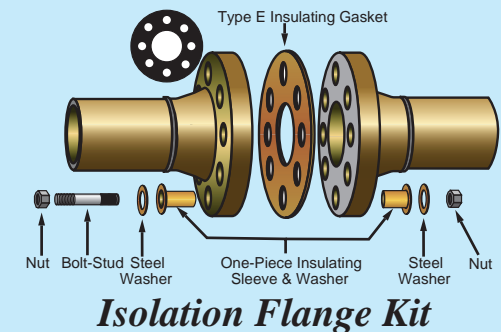
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Zinc Grounding Cell



Polarization Cell Replacement (PCR)



Isolation Flange Kit

Standard Zinc Grounding Cells

MODEL	NET WEIGHT	GROUNDING CELL DIMENSION (L x W x D) (MM)	GROSS WEIGHT
BTZN - 180 G	8.1 Kg.	37 x 37 x 915	32.0 Kg.
BTZN - 330G	14.9 Kg.	37 x 37 x 1524	44.7 Kg.
BTZN - 570G	25.7 Kg.	760 x 65 x 75	55.2 Kg.
BTZN - 600G	27.2 Kg.	51 x 51 x 1524	58.9 Kg.