CTS CORROSION TECHNOLOGY SERVICES

ZINC RIBBON ANODE

Application

Zinc ribbon anodes are designed to provide a simple, cost effective method for applying sacrificial anode cathodic protection in confined or high resistivity locations such as carrier pipes within sleeves and closely spaced pipelines. Zinc ribbon anodes may also be used to mitigate induced AC voltages and currents from pipelines and, in the form of ground mats, to provide personal protection.

Availability

Zinc ribbon anodes are produced in the shape of diamond lattice, in accordance with ASTM-B-418 Standard Type I and Type II alloy.

Type I is generally used in seawater or brackish water systems and Type II is generally used in underground and fresh water systems or environments.

Sacrificial Anode

Chemical Composition

	Al %	Cd %	Fe %	Pb %	Cu %	Zn
ASTM B-418 type I (US Mil Spec A -18001 K)	0.1-0.5	0.02-0.07	0.005 max	0.006 max	0.006 max	Balance
ASTM B-418 type II	0.005 max	0.003 max	0.0014 max	0.003 max	0.002 max	Balance

Electrochemical Properties

	Open Circuit Voltage (-V)*	Closed Circuit Voltage (-V)	Capacity Ah/kg	Efficiency
ASTM B-418 type I	1.05 min	1.00 min	780	95%
ASTM B-418 type II	1.10 min	1.05 min	760	90%

* wrt Ag/AgCl Reference Electrode

Dimensions

Size type	Illustration	A (mm)	B (mm)	Length per roll (m)	Net weight (kg/m)
Super CTSZR-01		25.4	31.75	30.5	3.57
Plus CTSZR-02		15.9	22.2	61	1.79
Standard CTSZR-03		12.7	14.3	152.5/305/1100	0.89
Small CTSZR-04		8.7	11.9	305	0.37

A and B are the length of the diagonal lines of the diamond section.

CTSZR-01 is normally supplied in reels all other sizes are supplied on wooden drums

Quality Assurance

Each batch of anode is tested using international test standards against specified limits and supplied with chemical analysis and electrochemical test data certification.

Disclaimer

The information provided in this document was accurate at the time it was published, however, we reserve the right to revise this document without prior warning.