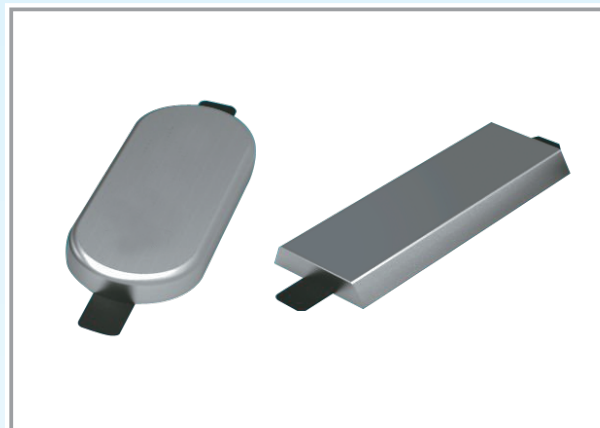


SACRIFICIAL ZINC ANODES FOR HULL APPLICATIONS

Application

Sacrificial anodes have been used to combat corrosion of metals in sea water for over 150 years. During this time, the name of Wilson Walton has become one of the best known in the marine industry.

Wilson Walton anodes are available in zinc or aluminium alloys for the protection of ships hulls, ballast tanks and other structures. If required, Wilson Walton engineering staff are available to calculate anode requirements for all types of structure.



Availability

Wilson Walton have developed a number of aluminium and zinc sacrificial anode alloys for marine use. Aloline is a range of indium activated aluminium-zinc alloys. Zincoline is the trademark for zinc alloy anodes conforming to US Mil Specifications. Other alloy formulations or modifications are available to the standard alloys to suit specific marine conditions.

Zincoline

Zincoline alloys are based on US MIL Spec 12001K and ASTM B418 Type I and are suitable for general sea water applications but their high specific gravity and low electrochemical capacity compared to aluminium alloys makes them less favoured for use on jackets and other structures. Zinc alloys operate over a very wide range of anode current densities and in higher resistivity waters and saline mud, but are not suitable for use at temperatures above 50°C. Zincoline is therefore recommended for use on coated structures where weight is less of a consideration and for buried sub-sea pipelines at ambient operating temperatures.

For temperatures over 50°C, special high temperature alloys are available.

Zincalloy can be used in tank applications, particularly in upper areas where installation of Aloline anodes is restricted.

CTS can also supply anodes manufactured in alloys corresponding to ASTM B418 Type II alloy which may be more appropriate for use in potable waters.

ZINC HULL ANODES

Type	A (mm)	Core (mm)	B (mm)	C (mm)	D (mm)	Net Weight (kg)	Gross Weight (kg)
WP3	200	20 x 3	300	30	95	3.1	3.2
W6Z	270	40 x 6	350	32	150	6.5	7.1
W11Z	400	40 x 6	500	27	150	10.8	11.8
W14Z	550	40 x 6	650	50	130	21.3	22.5
W17Z	550	50 x 6	650	65	130	25.0	26.5
W19Z	550	50 x 6	650	75	130	33.0	34.5
WP0	120	10 x 3	200	25	40	0.5	0.55
WP1	180	20 x 3	260	32	60	1.0	1.1
WP2	220	20 x 3	300	38	75	2.15	2.3
WP5	290	20 x 6	380	50	100	4.55	5.0
WP10	280	40 x 6	400	75	150	10.0	10.7
WP16	420	40 x 6	520	70	160	15.0	16.0

* All weights in Kilograms. All dimensions in millimetres. All weight and dimensions are nominal.

