

SACRIFICIAL ANODE

Hull Sacrificial Anode

Sacrificial anode is a protecting cathode unit for metal constructions in marine and harbor industries.its properties are in compliance with the requirement of the GB/T 4950-2002. ZAC and AZI corrosio...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Category      | Sacrificial Anode                                                           |
| Standard      | DIN                                                                         |
| Material      | zinc,aluminium or other.                                                    |
| Weight / Size | ZAC and AZI corrosion-proof sacrificial anode are synthesized mainly by ... |
| Certificate   | BV, CCS, mill certificate etc.                                              |

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

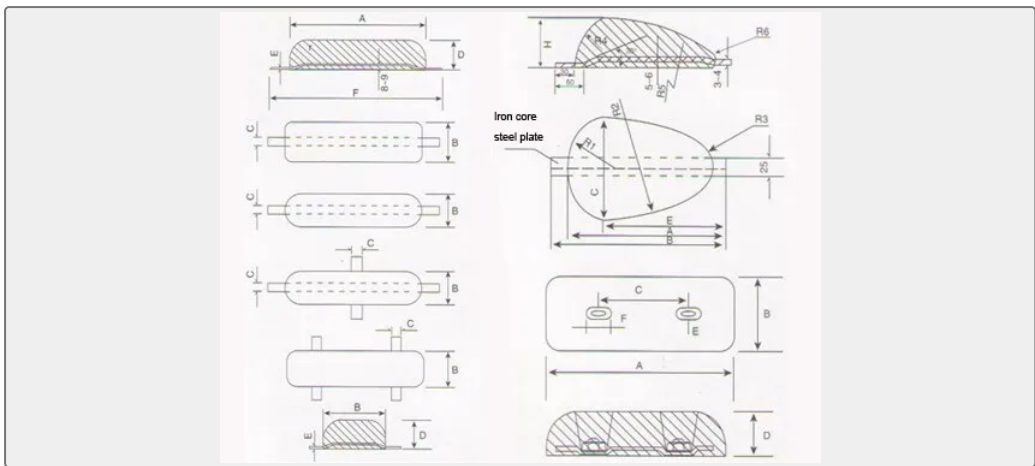
Technical Specifications

|               |                                                                                                                                                                                                                                                                                                                              |             |                          |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|
| Category      | Sacrificial Anode                                                                                                                                                                                                                                                                                                            | Model / SKU | Hull-Sacrificial-Anode   |
| Standard      | DIN                                                                                                                                                                                                                                                                                                                          | Material    | zinc,aluminium or other. |
| Weight / Size | ZAC and AZI corrosion-proof sacrificial anode are synthesized mainly by high-purity (99.998%min) Zinc and fine Aluminum.Cadmium and Indium elements.They are the idea special corrosion - proof materials for protecting steel like matter when used under sea and ground ,ZAC is one of the outstanding cacrificial anodes. |             |                          |
| Warranty      | 12 Months unless specified otherwise                                                                                                                                                                                                                                                                                         | Origin      | China                    |

CONTENTS

- China Hull Sacrificial Anode:
- Chemical Composition and Electrochemical Propoties:

## China Hull Sacrificial Anode:



Sacrificial anode is a protecting cathode unit for metal constructions in marine and harbor industries.its properties are in compliance with the requirement of the GB/T 4950-2002.

ZAC and AZI corrosion-proof sacrificial anode are synthesized mainly by high-purity (99.998%min) Zinc and fine Aluminum.Cadmium and Indium elements.They are the idea special corrosion - proof materials for protecting steel like matter when used under sea and ground ,ZAC is one of the outstanding sacrificial anodes. This product has been approved by China Vessel Inspection Bureau , Its quality specification meets the standard of GB4905-85,GB4948-85.

### Application Scope

Ship Offshore engineering Dock and harbor Structure.Landing facilities used underground and under water Submerged pipelines,Oil storage tanks,Electric power station

## Chemical Composition and Electrochemical Propoties:

| ZAC Sacrificial Anode Chemical Composition |                         |             |        |        |        |        |           |
|--------------------------------------------|-------------------------|-------------|--------|--------|--------|--------|-----------|
| Chemical Composition                       | Chemical Composition, % |             |        |        |        |        | Zn        |
| Type                                       | AL                      | CD          | Fe     | Cu     | Pb     | Si     |           |
| ZAC, %                                     | 0.3 ~ 0.6               | 0.05 ~ 0.12 | ≤0.005 | ≤0.005 | ≤0.006 | ≤0.125 | remainder |

| ZAC Sacrificial Anode Electrochemical Propoties                            |                  |                       |                           |                      |                                                                    |
|----------------------------------------------------------------------------|------------------|-----------------------|---------------------------|----------------------|--------------------------------------------------------------------|
| item                                                                       | open potential V | Operating potential V | actual capacitance A.h/kg | current efficiency % | dissolved status                                                   |
| electrochemical propoties                                                  | -1.09 ~ -1.05    | -1.05 ~ -1.00         | ≥780                      | ≥95                  | corrosion product flakes off easily argues the uniform dissolution |
| Note: the media is artificial seawater, the reference electrode is calomel |                  |                       |                           |                      |                                                                    |

| AZI Sacrificial Anode Chemical Composition |                         |    |    |    |    |    |    |    |    |
|--------------------------------------------|-------------------------|----|----|----|----|----|----|----|----|
| Chemical Composition                       | Chemical Composition, % |    |    |    |    |    |    |    |    |
| Type                                       | Zn                      | In | Cd | Sn | Mg | Si | Fe | Cu | Al |

|           |           |               |               |               |             |             |       |       |           |
|-----------|-----------|---------------|---------------|---------------|-------------|-------------|-------|-------|-----------|
| AZI-Cd    | 2.5 ~ 4.5 | 0.018 ~ 0.050 | 0.005 ~ 0.020 | -             | -           | ≤0.13       | ≤0.16 | ≤0.02 | remainder |
| AZI-Sn    | 2.2 ~ 5.2 | 0.020 ~ 0.045 | -             | 0.018 ~ 0.035 | -           | ≤0.13       | ≤0.16 | ≤0.02 | remainder |
| AZI-Si    | 5.5 ~ 7.0 | 0.025 ~ 0.035 | -             | -             | -           | 0.10 ~ 0.15 | ≤0.16 | ≤0.02 | remainder |
| AZI-Sn-Mg | 2.5 ~ 4.0 | 0.020 ~ 0.050 | -             | 0.025 ~ 0.075 | 0.50 ~ 1.00 | ≤0.13       | ≤0.16 | ≤0.02 | remainder |

#### AZI Sacrificial Anode Electrochemical Properties

| item                       | open potential V | Operating potential V | actual capacitance A.h/kg | current efficiency % | dissolved status                                                   |
|----------------------------|------------------|-----------------------|---------------------------|----------------------|--------------------------------------------------------------------|
| electrochemical properties | -1.18 ~ -1.10    | -1.12 ~ -1.05         | ≥2400                     | ≥85                  | corrosion product flakes off easily argues the uniform dissolution |

Note: the media is artificial seawater, the reference electrode is calomel

| Type  | Size                                                                                                    |     |    |    |   |     |
|-------|---------------------------------------------------------------------------------------------------------|-----|----|----|---|-----|
|       | A                                                                                                       | B   | C  | D  | E | F   |
| ZAC   | 180                                                                                                     | 70  | 30 | 35 | 3 | 340 |
| ZAC   | 200                                                                                                     | 100 | 30 | 35 | 3 | 360 |
| ZAC   | 200                                                                                                     | 100 | 30 | 30 | 3 | 360 |
| ZAC   | 250                                                                                                     | 100 | 40 | 35 | 4 | 410 |
| ZAC   | 300                                                                                                     | 100 | 40 | 35 | 4 | 460 |
| ZAC   | 300                                                                                                     | 150 | 40 | 30 | 4 | 460 |
| ZAC   | 300                                                                                                     | 150 | 40 | 50 | 4 | 460 |
| ZAC   | 400                                                                                                     | 100 | 40 | 35 | 4 | 560 |
| ZAC   | 400                                                                                                     | 100 | 40 | 35 | 4 | 560 |
| ZAC   | 500                                                                                                     | 100 | 40 | 40 | 4 | 660 |
| ZAC   | 800                                                                                                     | 140 | 40 | 40 | 4 | 960 |
| Note: | For some special requirements, we can manufacture the products according to the drawing and the sample. |     |    |    |   |     |

| Type | Size |     |    |    |   |     |
|------|------|-----|----|----|---|-----|
|      | A    | B   | C  | D  | E | F   |
| AZI  | 180  | 70  | 30 | 35 | 3 | 340 |
| AZI  | 250  | 100 | 40 | 35 | 4 | 410 |
| AZI  | 300  | 100 | 40 | 35 | 4 | 460 |



|       |                                                                                                         |     |     |    |    |    |
|-------|---------------------------------------------------------------------------------------------------------|-----|-----|----|----|----|
| ZAC   | 440                                                                                                     | 200 | 230 | 40 | 50 | 22 |
| AZI   |                                                                                                         |     |     |    |    |    |
| Note: | For some special requirements, we can manufacture the products according to the drawing and the sample. |     |     |    |    |    |