Titanium Anode Baskets

**Standard Styles and Sizes**
- Rectangular—$2\frac{1}{2}'' \times 6'' \times$ Length
- Round—$2\frac{1}{4}''$ Diameter $\times$ Length
- Standard Stock lengths include 18", 24", 30". Other lengths built to order.
- All Baskets available in Titanium, Zirconium, Stainless Steel and Monel

**Mesh Types & Choosing the Right One**
- **Mini-Expanded** — $\frac{3}{16}'' \times$ SWD $\times$ $\frac{1}{2}''$ LWD . . . . . . . 65% mesh open area
- **Large-Expanded** — $\frac{1}{2}'' \times$ SWD $\times$ $1\frac{1}{4}''$ LWD . . . . . . . 75% mesh open area
- **Perforated** — $\frac{1}{2}''$ dia. on $\frac{3}{16}''$ staggered centers . . . . . . . 50% mesh open area

*SWD = Short Width Dimension  LWD = Long Width Dimensions on Diamond Pattern*

Industry Standard calls for 2:1 Anode to Cathode ratio when calculating anodes in a bath.
- **Mini-Expanded Mesh** is the most commonly used mesh type, offering a compromise between enough open area and basket stability.
- **Large-Expanded Mesh** is highly used for large anode ball applications.
- **Perforated** is the most durable and used with a variety of anode material.

**Basket Amperage and Hooks**
Rectangular Baskets are standard with 50 AMPS/Bskt Double Contact Hooks. Higher amperage is available (i.e. 100 AMPS, 150 AMPS and 200+ AMPS).
To determine the AMPS needed per basked, use the following formula:

$$\text{AMPS needed per basket} = \frac{\text{Total AMPS of Tank}}{\text{Total Number of Baskets}}$$

Amperage Rating per Hook:
- 25 AMP = $\frac{1}{4}'' \times 1''$ Double Contact Hook or $\frac{1}{8}''$ Square Bar Hook
- 50 AMP = $\frac{1}{4}'' \times 1''$ Double Contact Hook or $\frac{1}{4}''$ Square Bar Hook
- 75 AMP = $\frac{3}{8}'' \times 1''$ Double Contact Hook or $\frac{1}{2}''$ Square Bar Hook
- 100 AMP = $\frac{1}{2}'' \times 1''$ Double Contact Hook or $\frac{3}{8}''$ Square Bar Hook

**Considerations for Basket Sizing**
The following rules of thumb are recommended for sizing baskets:
- Baskets should be 2” to 4” shorter than the longest piece of work
- Baskets should be 1” above the solution level
- Hook length is measured from the top of anode bar to 1” above the solution level
- Quantities for rectangular baskets should be three (3) $2\frac{1}{2}'' \times 6''$ baskets for every two feet of bar

**Anode Quantities**

<table>
<thead>
<tr>
<th>Quantities of anodes to fill baskets</th>
<th>Rectangular $2\frac{1}{2}'' \times 6'' \times$ L</th>
<th>Round $2\frac{1}{2}''$ Dia $\times$ L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel Buttons: lbs/inch of length</td>
<td>3 lbs/inch</td>
<td>.8 lbs/inch</td>
</tr>
<tr>
<td>Copper Chunks: lbs/inch of length</td>
<td>$2\frac{1}{2}$ lbs/inch</td>
<td>.75 lbs/inch</td>
</tr>
<tr>
<td>2” Copper Balls: lbs/inch of length</td>
<td>2 lbs/inch</td>
<td>.625 lbs/inch</td>
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Basket Options
- Inverted “V” Lift Hooks, Inverted “U” Hooks and Reverse Lift Hooks for easier access in lifting baskets
- Submergible Hooks
- Loading Chutes for easier anode loading
- Mesh on four sides of basket for greater anode-to-cathode ratio

For Heavy Duty applications, we offer the following basket options:
- Heavier Hooks for strength and current carrying capabilities
- Ti Clad Copper Hooks for higher amperage rating
- Thicker mesh material to minimize bulging of basket
- Thicker side channel construction

Please supply the following information upon submitting an inquiry to TITAN via phone, fax or e-mail:

1. Quantity_____________________________________________________
2. Material Type________________________________________________
3. Mesh Type □ Mini-Expanded □ Large-Expanded □ Perforated
4. Basket Style □ Round □ Rectangular
5. Dimensions of Basket:
   A. ____________________________________________________________
   B. ____________________________________________________________
   C. ____________________________________________________________
   D. ____________________________________________________________
6. Style and Size of Hook_________________________________________
7. Amperage Required Per Basket__________________________________
8. Options_______________________________________________________
9. Contact and Phone_____________________________________________

TITAN METAL FABRICATORS

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