

Regard to the anode life time was calculated by the following formula:

$$Y = \frac{N \times g \times Q}{I_M \times 8760} \times \frac{1}{K}$$

Y: refer to the anode life time, a

N: refer to the no. of the anode, pcs

g: refer to the anode net weight, kg

Q: refer to the anode capacity, A.h/kg

I_M : refer to the average protected current during the protection lead time which will be calculated by the following formula:

$$I_M = \frac{(0.5 \sim 0.55) \times \sum S_i \times I_i}{1000}$$

$\sum S_i$: refer to the total protection area, m^2

I_i : refer to the protection current density, mA/ m^2

1/K: refer to the anode utilize coefficient, here can use 0.90-0.95

The calculation is as follows:

N=4pcs

g=227kgs

Q=780A.h/kg

$\sum S_i$ =unknow

I_i =70 mA/ m^2 (this is the empirical dat

1/K=0.75-0.80