Sacrificial Anode

If two different metals are physically or electrically connected and immersed in electrolyte then some amount of current flows between the two metals. This current is supplied by one of the metals by emmiting metal ions to the conductive environment . This is known as galvanic corrosion which destroys base metals rapidly.

Magnesium (Mg) alloy anodes are having greater driving potential than zinc (Zn) or aluminium (Al). So that magnesium anodes are suitable for the protection of pipeline, tanks, condensers, water boxes, heatexchangers, ship hulls, boilers and marine structures from corrosion.

Magnesium Alloy Anode (sacrificial Mg cathodic protection anode)

According to the chemical composition Mg anode can be classified as high potential magnesium anode & low potential Mg anodes.

High potential magnesium anode is made from high purity Mg, which produce higher driving volte. So that it can be used for high resistivity soil.

Low potential Mg alloy anodes are made out of magnesium alloy. This anode gives uniform current output and is used in low resistivity soils.

Applciations

- Solar Hot Water Systems
- Industrial Coolers
- Off Shores
- Chemical Tanks
- Boilers Etc