

## GENERAL:

Magnesium Anode (Mg) is widely used as a sacrificial anode to provide Cathodic Protection of underground metal structures. Mg anode has highest driving potential, it is mostly used on underground structures On-Shore with high resistivity environment like soils.

Pre-packaged or bare Mg anodes are sacrificial anodes available in variety of sizes and shapes to suit the applications like, Internal and external tank bottoms, Buried vessel, Buried pipeline and Any other buried metallic structure.

Magnesium anodes are usually supplied with factory connected XLPE/PVC anode tail cable; however, the type of cable connection can be changed as per client requirement.

The Magnesium anodes can be supplied bare or pre-packaged (in cotton bag) with low resistivity backfill materials such bentonite, gypsum and sodium sulphate.

VTS anodes meets international specification such as NACE/ISO/Shell.

## ELECTROCHEMICAL PROPERTIES

Open Circuit Potential Cu/CuSo4 (-V)	Theoretical Current Capacity A-Hr/Kg	Effectivte Capacity A-Hr/Kg	Efficient %	Consumption Rate Kg/A-Yr	Specific Gravity
1.55 to 1.70	2,200	1,100	50	8	1.8

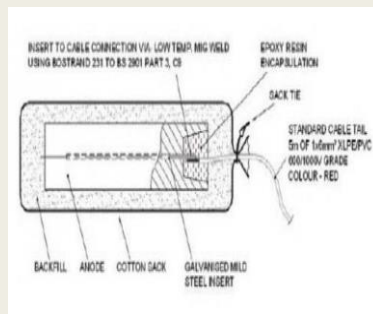
## CHEMICAL COMPOSITION

ELEMENT	% COMPOSITION
Al	0.01 Max
Mn	0.5 to 1.3
Cu	0.02 Max
Ni	0.001 Max
Fe	0.03 Max
Others	0.3 Max
Mg	Balance

## BARE MAGNESIUM ANODES



## PREPACKED MAGNESIUM ANODES



PREPACKING BACKFILL MATERIALS
Gypsum – 75%
Bentonite – 20%
Sodium Sulfate – 5%

