



Magnesium Ribbon Anode

Magnesium ribbon anode consists of extrusion of magnesium around a central galvanized steel core.

YUXI anodes manufactures Magnesium ribbon using a high precision and pressure automatic extruder with unique cutting and rolling technology, ensuring the superior flexibility of magnesium ribbon.

Our Magnesium Ribbon has a uniform and high density metal structure which enabling the high flexibility and uniform current distribution in cathodic protection system.

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APPLICATION

- ▶ High resistivity environment
- ▶ Pipelines in casing
- ▶ Temporary cathodic protection of pipeline
- ▶ Storage tank and pipe network
- ▶ Grounding grid against electric interference



FEATURES

- ▶ High density metal structure
- ▶ Uniform structure for efficient current distribution
- ▶ Perfect core eccentricity ensuring the uniform consumption
- ▶ Superior flexibility for easy installation
- ▶ Independed wooden reel packing for easy transportation and unfolding in field

ELECTROCHEMICAL PROPERTIES

Alloy Standard	Open Potential(-V)	Close Potential(-V)	Current Capacity	Current Efficiency
ASTM B843-M1C	1.70~1.75	1.58~1.62	500A.h/lbs (1100A.h/kg)	50%

Current Density of Magnesium Ribbon

Sea water	732mA/ft.
Soil	3.0mA/ft.
Fresh Water	0.9mA/ft.
Note	Open / Close Circuit Potential is with respect to a Saturated Calomel Reference Electrode

CHEMICAL COMPOSITION

Element	Grade ASTM B843
Aluminum	0.01%max.
Manganese	0.50-1.30%
Silicon	0.05%
Copper	0.02%
Nickel	0.001%
Iron	0.03%
Magnesium	0.05%
Other Each	0.30%
Others Total	Remainder

SPECIFICATIONS

Cross Section(BxA)	3/8"×3/4"
Dia. of Galvanized Steel Core	0.135"
Core Eccentricity	< 1/16"
Unit Weight	0.243lbs/ft.
Standard Packing	1,000ft./Coil or cut to length

