Marine Electrode

Marine Electrode Technical Specifications

Physical Properties

Property	Typical Value	Unit	Test Method
Physical State	Black Solid		
Odor	None		
Water Permeability	1.72×10^{-7}	cm/sec	ASTM D5084 (2.6 psi)
Flammability	No ignition		Exposed to a propane torch (~2000 °C) for 60 seconds
Electrical Corrision Resistance Copper Steel Galvanized Steel	 100 98.09 99.91	%	SAE Inc. Standard 100
Compatibility Copper Steel Galvanized Steel	 Yes Yes Yes		SAE Inc. Standard 100
Environmental Impact	Neutral		Ontario Regulation 558/00 (Leachate Testing)
Freeze-thaw Withstand	30	Years	SAE Inc. Standard 102

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Electrical Properties

Property	Typical Value	Unit	Test Method
Resistance	0.031	Ω	SAE Inc. Standard 105
Resistivity	30.39	Ω·cm	SAE Inc. Standard 105

Leachate (TCLP) Results

Leachate Data (TCLP Procedure) based on Ontario Regulation 558/00

Constituent	Marine Electrode TCLP Concentration (mg/L)	USEPA Maximum Contaminant Level (mg/L)
Arsenic	BDL	0.010
Barium	1.490	2.000
Boron	1.067	2.000*
Chromium	0.026	0.100
Mercury	BDL	0.002
Selenium	0.013	0.50
Silver	BDL	0.100**
Uranium	BDL	0.030
Fluoride	0.190	2.000**
Nitrate (as Nitrogen)	BDL	10.000
Nitrite (as Nitrogen)	BDL	1.000
Free Cyanide	BDL	0.200

BDL means the result is “Below the Detection Level” of the analytical procedure
* No MCL established; value shown is USEPA’s Lifetime Drinking Water Health Advisory
** No MCL established; value shown is USEPA’s Secondary Drinking Water Standard

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