

ConduDisc™ Technical Specifications

Physical Properties:

Property	Typical Value	Unit	Test Method
Physical State	Black Solid		
Odor	None		
Density	1150 1.15 71.79	kg/m ³ g/cm ³ lbs/ft ³	SAE Inc. Standard 104
Water Absorption	10	%	SAE Inc. Standard 101
Water Permeability	1.72 x 10 ⁻⁷	cm/sec	ASTM 5084 (2.6 psi)
Flammability	No ignition		Exposed to a propane torch (~2000 °C) for 60 seconds
Electrical Corrosion Resistance			
Copper	100	%	SAE Inc. Standard 100
Steel	100		
Galvanized Steel	99.81		
Compatibility			
Copper	Yes		SAE Inc. Standard 100
Steel	Yes		
Galvanized Steel	Yes		
Environmental Impact	Neutral		Ontario Regulation 558/00 (Leachate Testing)
Freeze-Thaw Withstand	30	years	SAE Inc. Standard 102

Mechanical Properties:

Property	Typical Value	Unit	Test Method
Elastic Compression			
7000 kg	2.2 (4.3)	mm (%)	SAE Inc. Standard 103
12 000 kg	2.6 (5.1)	mm (%)	
14 500 kg	3.0 (5.9)	mm (%)	
16 771 kg	3.1 (6.1)	mm (%)	
Maximum Load Applied	16 771	kg	SAE Inc. Standard 103

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

Fault Current Withstand:

RMS Current (A)	RMS Voltage (kV)	Resistance Before Test (mΩ)	Resistance After Test (mΩ)	Approximate Temperature Rise (°C)	Test Duration (milliseconds)
1040	19.5	30.6	20.3	1	508
2520	124.0	55.5	20.2	2	508
3730	239.0	44.9	46.0	13	234
4990	176.0	34.6	7.28	1	508

Leachate (TCLP) Results:

Leachate Data (TCLP Procedure) based on Regulation 558 performed by Testmark Laboratories Ltd.

Constituent	ConduDisc™ TCLP Concentration (mg/L)	USEPA Maximum Contaminant Level (mg/L)
Arsenic	< 0.010	0.010
Barium	1.490	2.000
Boron	1.067	2.000 [†]
Chromium	0.026	0.100
Mercury	< 0.001	0.002
Selenium	0.013	0.050
Silver	< 0.01	0.100*
Uranium	< 0.01	0.030
Fluoride	0.190	2.000*
Nitrate (as Nitrogen)	< 0.01	10.000
Nitrite (as Nitrogen)	< 0.05	1.000
Cyanide	< 0.05	0.200

† 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.

Note: < denotes less than method detection limit (MDL).

Updated: June 26, 2018