

## ConduDisc® Technical Specifications

### Physical Properties:

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

### Mechanical Properties:

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