

## ConduDisc Elite Technical Specifications

### Physical Properties

Property	Typical Value	Unit	Test Method
Physical State	Black Solid		
Odor	None		
Water Permeability	1.72 x 10 <sup>-7</sup>	cm/sec	ASTM D5084 (2.6 psi)
Flammability	No ignition		Exposed to a propane torch (~2000 °C) for 60 seconds
Electrical Corrosion 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

### Mechanical Properties

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

## Electrical Properties

Property	Typical Value	Unit	Test Method
Resistivity	30.39	$\Omega \cdot \text{cm}$	SAE Inc. Standard 105
Conductivity	0.03	S/cm	SAE Inc. Standard 105

## Fault Current Withstand

RS Current (A)	RMS Voltage (kV)	Resistance Before Test (m $\Omega$ )	Resistance After Test (m $\Omega$ )	Approximate Temperature Rise ( $^{\circ}\text{C}$ )	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 Ontario Regulation 558/00

Constituent	ConduDisc Elite 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	0.050
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
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

## Coated STR Copper Wire Physical Properties

Property	Typical Value	Unit	Test Method
Concentricity	> 80	%	ASTM D3032, Section 16
Minimum Bend Radius #6 AWG #4 AWG #2 AWG 2/0 AWG	0.5 1 1 1.5	inches	SAE Inc. Standard 115
Minimum Cold Bend Radius (6° C) #6 AWG #4 AWG #2 AWG 2/0 AWG	1 1.5 1.5 2	inches	SAE Inc. Standard 115
Minimum Polymer Wall Thickness	1.3	mm	

Additional specifications and application details available as required.  
Values subject to change.

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