

## ConduFlow<sup>®</sup>- 1500 Technical Specifications

### Physical Properties:

Property	Typical Value	Unit	Test Method
<b>Density</b>	1010	kg/m <sup>3</sup>	SAE Inc. Standard 104
	1.010	g/cm <sup>3</sup>	
	63.05	lbs/ft <sup>3</sup>	
<b>Volume</b>	0.019	m <sup>3</sup>	SAE Inc. Standard 104
	0.66	ft <sup>3</sup>	
<b>Water Absorption</b>	32	%	SAE Inc. Standard 101
<b>Water Permeability</b>	8.3 x 10 <sup>-6</sup>	cm/sec	ASTM 5084 (2.6 psi)
<b>Electrical Corrosion Resistance</b>			SAE Inc. Standard 100
<b>Copper</b>	95 - 100	%	
<b>Compatibility</b>			SAE Inc. Standard 100
<b>Copper</b>	Yes		
<b>Environmental Impact</b>	Neutral		Ontario Regulation 558/00 (Leachate Testing)
<b>Freeze-Thaw Withstand</b>	> 18 (testing ongoing)	years	SAE Inc. Standard 102

### Electrical Properties:

Property	Typical Value	Unit	Test Method
<b>Resistance</b>	0.6	Ω	SAE Inc. Standard 105
<b>Resistivity</b>	18	Ω·cm	SAE Inc. Standard 105
<b>Conductivity</b>	0.06	S/cm	SAE Inc. Standard 105

### Material Properties:

Property	Typical Value	Unit	Test Method
<b>Physical State (Uncured)</b>	Dark Blue Slurry (ConduFlow <sup>®</sup> ) Grey Powder (Curing Agent)		
<b>Physical State (Cured)</b>	Black Solid		
<b>Odor</b>	None		
<b>Working Time</b>	15 - 45	minutes	
<b>Setting Time</b>	24	hours	
<b>Cure Time (90% cure)</b>	4	weeks	
<b>Cure Time (100% cure)</b>	9 - 10	weeks	
<b>Flow Rate</b>	1500	g/min	SAE Inc. Standard 109 (funnel with 1.5" diameter opening)

## Leachate (TCLP) Results:

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

Constituent	ConduFlow® - 1500 TCLP Concentration (mg/L)	USEPA Maximum Contaminant Level (mg/L)
<b>Arsenic</b>	< 0.010	0.010
<b>Barium</b>	0.246	2.000
<b>Boron</b>	0.130	2.000 <sup>†</sup>
<b>Cadmium</b>	< 0.001	0.005
<b>Chromium</b>	0.026	0.100
<b>Lead</b>	< 0.01	0.015
<b>Mercury</b>	< 0.001	0.002
<b>Selenium</b>	< 0.01	0.050
<b>Silver</b>	< 0.01	0.100*
<b>Uranium</b>	< 0.01	0.030
<b>Fluoride</b>	0.376	2.000*
<b>Nitrate (as Nitrogen)</b>	< 0.01	10.000
<b>Nitrite (as Nitrogen)</b>	< 0.05	1.000
<b>Cyanide</b>	< 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