

ConduFlow™- 1500 Technical Specifications

Physical Properties:

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

Electrical Properties:

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

Material Properties:

Property	Typical Value	Unit	Test Method
Physical State (Uncured)	Dark Blue Slurry (ConduFlow) Grey Powder (Curing Agent)		
Physical State (Cured)	Black Solid		
Odor	None		
Working Time	15 - 45	minutes	
Setting Time	24	hours	
Cure Time (90% cure)	4	weeks	
Cure Time (100% cure)	9 - 10	weeks	
Flow Rate	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)
Arsenic	< 0.010	0.010
Barium	0.246	2.000
Boron	0.130	2.000 [†]
Cadmium	< 0.001	0.005
Chromium	0.026	0.100
Lead	< 0.01	0.015
Mercury	< 0.001	0.002
Selenium	< 0.01	0.050
Silver	< 0.01	0.100*
Uranium	< 0.01	0.030
Fluoride	0.376	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