



**CELEC® CONDUCTIVE CONCRETE TECHNICAL DATA SHEET**

**DATE : JULY 25/ 2019**

**CODE: FT-001/REV.00**

**CARRY OUT:  
CELEC DE COLOMBIA S.A.S.**

**ELECTRICAL PROPERTY**

<b>RESISTIVITY</b>	DRY DUST	≤ 4,8 Ω-cm
	HUMIDITY 10%	≤ 10 Ω-cm
	SOLID	≤ 4,8 Ω-cm

**TEST ASTM 187 STANDARD**

<b>CONDUCTION</b>	<p><b>"ELECTRONICS + IONICS CONDUCE ELECTRICALLY IN DRY CONDITION.</b>          LIGHTNING TYPE CURRENT PULSE TEST WITH WAVE FORM 8/20          MICROSECONDS UP TO A DENSITY OF 120 KA / M2, WITHOUT CHANGING IT'S          RESISTANCE: INDUSTRIAL ELECTRICAL TESTS LABORATORY UNIVERSIDAD          NACIONAL DE COLOMBIA. "</p>	
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**SECURITY DATA**

<b>FIRE CONTRIBUTION</b>	CONSIDERED NON-EXPLOSIVE
<b>PRECAUTIONS WITH MATERIALS AND / OR EQUIPMENT</b>	AVOID CONTACT WITH ELEMENTS LIKE: PREMOLDED TERMINALS, TRANSFORMER BUSHINGS, POLYMER INSULATORS, ELECTRONIC CARDS
<b>SPECIAL PRECAUTIONS</b> <b>RISK OF ELECTRIC SHOCK</b>	<b>DO NOT SPOIL IN CLOSED SITES CONTAINING ENERGIZED EQUIPMENT.</b>
<b>HANDLING PRECAUTIONS</b>	"USE PERSONAL PROTECTION ELEMENTS, GLOVES, GLASSES, MASK.
<b>STORAGE PRECAUTIONS</b>	STORE SACKS IN DRY AND COVERED PLACES. KEEP THE PRODUCT PROTECTED FROM MOISTURE

"CELEC® is an electrically conductive product with a final appearance similar to the concrete achieved through a special dosage. It is used by embedding in a CELEC® mortar a conductive cable installed in a ditch. Its formulation allows the mechanical resistance to compression and flexion guarantee a permanent intimate contact between the cable and its coating, thus producing an artificial increase in the cross-section of the conductor, which, added to its excellent electrical conductivity makes it ideal for use in high resistivity fields.

Calle 36 N° 17 - 52/ 56 C.C. Omnicentro Oficina 3 - 4  
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**PHYSICAL AND CHEMICAL CHARACTERISTICS**

**APPAREANCE:**

"PACKAGING: DARK GRAY FINE POWDER POWDER. IN USE: FRAGUA OR SOLID MORTAR "

**GRANULOMETRY**

OVER MESH 10

0%

OVER MESH 60

25 % MAX

OVER MESH 100

50 % MAX

BOTTOM

25 % MIN

**HYGROSCOPIC**

**YES**

**CORROSIVE**

"IT IS NOT CORROSIVE, PROTECTS COPPER ELECTRODES IN DRY ENVIRONMENT: 169.5 YEARS / HUMID ENVIRONMENT: 107.5 YEARS. ALSO PROTECTS STEEL ELECTRODES GALVANIZED IN DRY ENVIRONMENT: 23.16 YEARS / HUMED ENVIRONMENT: 10.60 YEARS.

**POLLUTANT**

**NO**

"DO NOT PROOF OF LIXIVIATES UNDER REGULATION 558/00 OF ONTARIO (CANADA), CHEMICAL LABORATORY OF INDUSTRIAL STUDIES INDUSTRIAL UNIVERSITY OF SANTANDER "

**BOILING POINT**

N/A

**PH RANGE**

10,9 - 12,1

**VAPOR PRESSURE**

N/A

**APPARENT DENSITY**

1,2 gr/m3

**ODOR**

WITHOUT ODOR

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