


TECHNICAL DATA CONDUCTIVE CONCRETE CELEC®

	DATE : 02 JUNIO 2017	CODE: FT-001/Rev.06
	MADE BY : PROTECEM S.A	

ELECTRICAL PROPERTIES

RESISTIVITY	DRY DUST	≤ 4, 8 Ω-cm
	HUMIDITY TO 10%	≤ 10 Ω-cm
	SOLID	≤ 4, 8 Ω-cm

CONDUCTION	ELECTRONIC + IONIC ELECTRICALLY DRIVING IN THE DRY STATE CURRENT TEST DRIVE LIGHTING TYPE 8 / 20 S BE APPLIED TO 19 Ka IN 0.5 SECONDS SOURCE: LABORATORIO DE ENSAYOS ELECTRICOS INDUSTRIALES UNIVERSIDAD NACIONAL DE COLOMBIA.	
-------------------	--	--

SAFETY DATA

CONTRIBUTIONS TO FIRE	NOT CONSIDERED EXPLOSIVE
PRECAUTIONS WITH MATERIALS AND / OR EQUIPMENT	AVOID CONTACT WITH ITEMS SUCH AS: MEDIUM VOLTAGE TERMINATION , TRANSFORMERS BUSHINGS, POLIMERIC INSULATORS, ELECTRONICS CARDS
SPECIAL PRECAUTIONS RISK OF ELECTRIC SHOCK	DO NOT SPRINKLE ON ENERGIZED CLOSED PLACES.
PRECAUTIONS ON HANDLING	USE CAUTION HANDLING PERSONAL PROTECTION ELEMENTS, GLOVES, GOGGLES, MASKS
CAUTIONS FOR STORAGE	BAGS STORAGE MUST BE DRY AND COVERED. KEEP THE PRODUCT AWAY FROM THE HUMIDITY

CELEC® conductor of electricity is a product with a final appearance similar to concrete achieved by embedding a especial dosage. Used in a mortar of a conductive wire CELEC® installed in a trench . Its formulation allows the mechanical resistance to compression and bending ensure a permanent intimate contact between the cable and its coating , thus producing an artificial increase of the cross section of the conductor, which, added to its excellent electrical conductivity makes it ideal for use in areas of high resistivity . CELEC® is a comprehensive system that reduces the strength of Grounding Systems protect against theft of materials, prevents corrosion thereof, maintenance is not require and effectively clears any kind of electric shock.

Calle 37 No. 17-37 Centro Comercial Omnicentro Ofc 2-8
Telefax: (57) (7) 680 2373- 3187419341 / Bucaramanga, Colombia
Email: gerencia@protecem.com / comercial@cementocelec.com
WWW.CONCRETECELEC.CO

TECHNICAL DATA CONDUCTIVE CONCRETE CELEC®



PROTECEM

SU CONEXION CONFIABLE A TIERRA

DATE : 02 JUNIO 2017

CODE: FT-001/Rev.06

MADE BY : PROTECEM S.A

PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE:	IN PACKAGE: FINE POWDER DARK GRAY. IN USE: O MORTAR SOLID FORGE	
MESH GRANULOMETRY	OVER MESH 10	0%
	OVER MESH 60	25 % MAX
	OVER MESH 100	50 % MAX
	BOTTON	25 % MIN
HYDROSCOPIC	YES	
CORROSIVE	NO CORROSIVE DRY COPPER: 169.5 YEARS/ WET COPPER: 107.5 YEARS/ DRY STEEL: 23.16 YEARS/ WET STEEL: 10.60 YEARS ELECTROCHEMICAL MEASUREMENT OF LINEAR POLARIZATION RESISTANCE (LPR), TAFEL PENDING, AND ACTIONS OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY (EIS) SOURCE: CORPORACION PARA LA INVESTIGACION DE LA CORROSION- (COLOMBIA)	
CONTAMINANT	NO LEACHATE TEST UNDER ONTARIO REGULATION 558/00(CANADA) SOURCE:: LABORATORIO QUIMICO DE ESTUDIOS INDUSTRIALES UNIVERSIDAD INDUSTRIAL DE SANTANDER (COLOMBIA)	
BOILING POINT:	N/A	
PH RANGE	10,9 - 12,1	
VAPOR PRESSURE	N/A	
BULK DENSITY	1,2 - 1,8 gr/cc	
ODOR	NO	

Calle 37 No. 17-37 Centro Comercial Omnicentro Ofc 2-8
Telefax: (57) (7) 680 2373- 3187419341 / Bucaramanga, Colombia
Email: gerencia@protecem.com/ comercial@cementocelec.com
WWW.CONCRETECELEC.CO