

## Product Datasheet: Loresco SC\_3 Backfill

Loresco type SC-3® super conducting earth contact backfill is designed specifically for demanding anode systems which mandate a low resistivity medium

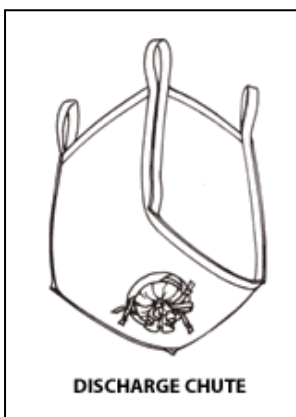
Loresco type SC-3 is a dust-free product and, according to EPA extraction tests, is extremely pure and complies with regulations governing buried products. Utilizing a modified industrial standard method for testing permeability (API RP-27), SC-3 will mitigate fluid interchange between aquifers.

Loresco SC-3 is produced specifically for cathodic protection applications using an exclusive multi-step process. First, a high quality base carbon with desired characteristics is selected. Next, this carbon is calcined to a minimum temperature of 1250° C under exacting and controlled standards. This step results in semi-graphitized carbon particles with excellent conductivity. Then, to further improve bulk conductivity, the surfaces of the individual particles are modified to enhance the contact conductance. This breakthrough in surface alteration ensures maximum electronic current transfer with positive anode contact. Finally, a specially formulated surfactant is added to reduce particle surface tension for compact settling under water.



Loresco SC-3 has a bulk density of 1185 Kg per cubic meter. The fixed carbon content is greater than 99.35% by weight. The bulk density and high fixed carbon content coupled with the assured low resistivity medium allows for longer grounded life at a lower operating cost.

Installation: Loresco SC-3, due to its dust-free manufacture, is simple to install by either mixing and pumping or by pouring. With deep anode systems, pumping from the bottom up is recommended. Loresco SC-3 has superb pumping qualities due to the addition of surfactants and when agitated in water, takes on the characteristics of heavy mud. A recommended mix is approximately 60 liters of water per one hundred kilograms. After installing SC-3, allow twenty-four hours settling time before energizing. The modified surface of the carbon particles coupled with the action of the surfactants in SC-3 will achieve positive electrical contact by settling. Vibrating or compacting is not necessary.



**Material Description:** Loresco SC-3 is a surface modified, blended, and sized carbon backfill with surfactants. Bulk Density: 1185 Kg per cubic meter. Predominantly round particles. All particles surface modified for maximum electrical conductivity. Particle Sizing: Dust free with a maximum particle size of 1 mm. Minimum calcination temperature of base materials 1250° C. Surfactants are added to assist pumping and settling. No de-dusting oils are used during the manufacture of base particles

**Shipping Data:** Loresco SC-3 is shipped in fifty 22.7 kg coated, woven polypropylene bags or in 1000kg bulk bags with duffel top and discharge chute. SC-3 may be stored outside for limited periods (not to exceed four hundred hours of sunlight).

**Part Numbers:** 50 Bag boxed pallet: AE-SC3P  
1000Kg Bulk Bag: AE-SC3B

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