SC•2®

Earth Contact Backfill

Loresco SC•2 is one of Loresco's *premium* earth contact backfills manufactured for deep anode systems. Loresco is already acknowledged around the world as a leader in cathodic protection. A dramatic breakthrough in over thirty years of research has now produced a super conducting premium earth contact backfill called Loresco SC•2. Once again, Loresco defines the standard for quality and performance in the cathodic protection industry.

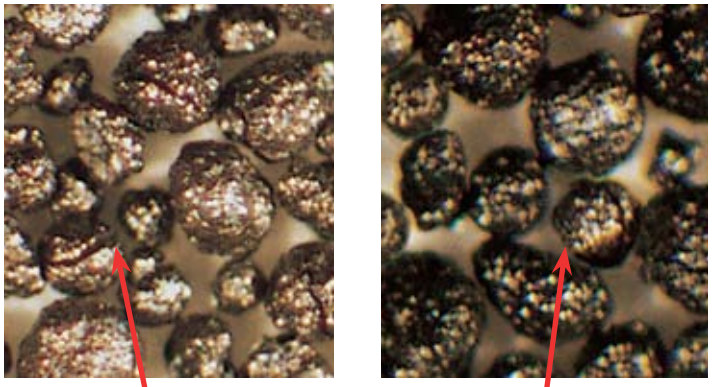
Loresco SC•2 is designed specifically for deep anode systems. Loresco SC•2 is a dust free product and, according to EPA extraction tests, is extremely pure and complies with regulations governing buried products. SC•2 mixes easily with water and may be pumped into deep anode systems. Loresco SC•2 is designed to promote electronic flow between the anode surface and itself. Loresco SC•2 is produced especially for cathodic protection applications using an exclusive multi-step process.

First, a very high quality base carbon with desired characteristics is selected. **Next**, this carbon is calcined to a minimum temperature of 1250° C under very exacting and controlled standards. This step results in semi-graphitized carbon particles with excellent conductivity. **Then**, to further improve the bulk conductivity, the surfaces of the individual particles are *partially-modified* to enhance the contact conductance.

This breakthrough in surface alteration ensures maximum electronic current transfer with positive anode contact. The surface alteration on the particle surfaces is not easily removed and stands up to the vigorous application methods in all field requirements.

Loresco SC•2 has a bulk density of 74 lbs per cubic foot. The fixed carbon content is greater than 99% by weight. The bulk density and high fixed carbon content coupled with the assured low resistivity medium allows for longer groundbed life at a lower operating cost.

The photo below is a magnification of Loresco SC•2



Particles Before Coating | **Particles After Coating**

INSTALLATION

Loresco SC•2 has excellent pumping qualities and when agitated in water, takes on the characteristics of heavy mud. A recommended mix is seven gallons of water per one-hundred pounds. After installing

SC•2, allow twenty-four hours settling time before energizing. The *partially modified* surface of the carbon particles in SC•2 will achieve positive electrical contact by settling. Vibrating or compacting is not necessary. See installation section of this catalog for additional pumping data.

SC•2 WORKS

Loresco SC•2 represents technology developed exclusively for deep and shallow impressed current cathodic protection installations. SC•2 is a premium earth contact backfill.

Specify Loresco SC•2. It works.

DRY VOLUME OF LORESCO TYPE SC2 REQUIRED VS. CYLINDRICAL HOLE SIZE

HOLE SIZE	CUBIC FT. PER LINEAL FT.	LBS. TYPE SC2 PER FT.	FT. TYPE SC2 PER 100 LBS.	LBS. SC2 PER 100 FT. OF HOLE
4"	.087	6.4	15.70	640
6"	.196	14.3	6.99	1430
8"	.349	25.5	3.93	2550
10"	.545	39.8	2.51	3980
12"	.784	57.2	1.75	5720

MATERIAL DESCRIPTION

Loresco SC•2 is a partially surface modified, blended, and sized carbon backfill.

SPECIFICATIONS

Fixed Carbon	99.35%
Ash	0.6%
Moisture	0.05%
Volatiles	nil (950°C)*
Bulk Density	74 lbs. per cubic foot

- Predominantly round particles
- Particles surface modified for increased electrical conductivity
- Particle sizing to be dust free with a maximum particle size of 1mm.
- Minimum calcination temperature of base materials is 1250° C
- Base materials are calcined under ISO 9002:2000 quality control
- No de-dusting oils are used during the manufacture of base particles

Typical values shown above. Specifications subject to changes without notice.

**Hydrogen / hydrocarbons nil due to calcination temperature in excess of 1200° C*