LYNCOLE
XIT GROUNDING
A VFC Company

The Lyncole XIT® System

The Lyncole XIT Grounding System is the original UL listed, patented, Electrolytic Grounding System. It is self-moisturizing and maintenance-free. It provides low resistance to earth in diverse climates around the world, without harmful effects to the environment. It is warranted for 30 years and has a life expectancy of 50 years. This active grounding system constantly replenishes moisture into the soil which continuously improves performance over time.

When installed with Lynconite II® backfill material, a proper PH balanced environment forms, which reduces corrosion to protect the XIT system and creates a very low resistance material directly around the rod. Each XIT Grounding System contains everything needed for a complete installation, including a copper electrolytic ground electrode, protective cover box, Lynconite II backfill material and exothermically welded pigtail conductor.

Features	Benefits
Electrolytic	Stable top performance regardless of adverse conditions.
Lowest Impedance path to ground	Equals safety for personnel & equipment. Reduces company liability.
Maintenance free	Save dollars by reducing replacement cost over 30 years. No watering, No recharging or refilling.
Pure hard drawn type K copper	Improved conductivity, more effective dissipation of current.
Non-corrosive design, No dissimilar metals, No galvanic corrosion	Reduces corrosion for longer life and reduced replacement expenditures .
Fewer rods required	Decreased real estate costs saves money by decreasing the area required.

History:

Lyncole was founded in 1985 with its mission being to provide the best in products and services in electrical protection and grounding. We started with the XIT Grounding System. This was the original and first ever patented design for an active ground rod solution.

Engineering Services:

Lyncole has the most experienced engineering staff in the industry. With over 100 years of combined engineering experience in the specialty area of grounding, they have completed thousands of grounding designs and hundreds of electrical protection surveys.

Education:

Lyncole has taken its experience and created education services that are unmatched in the industry, providing public and private courses where attendees can get real world and up-to-date experience combined with hands-on demonstrations.

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How the XIT System Works

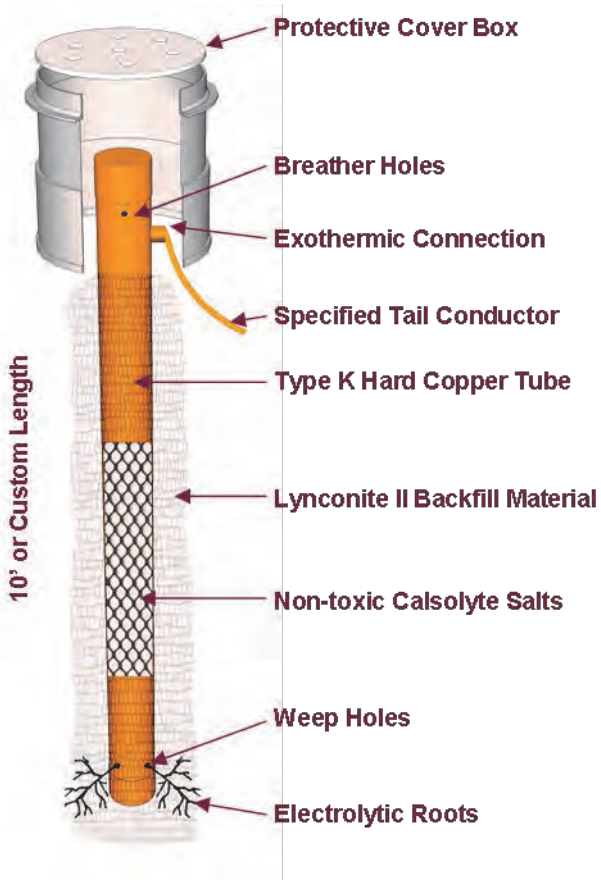
Lynconite II®:
Lynconite II is based on a natural earth clay. Unlike carbon based enhancement materials, Lynconite II does not place the grounding system in a corrosive environment. Lynconite II has a near neutral pH promoting a longer life span for any grounding system. Lab tests have shown a 120 year half-life for copper protected by Lynconite II which is one of the reasons the Lyncole XIT grounding electrodes can be warrantied for 30 years with a life expectancy of 50 years.

Grounding Gravel®:
Grounding Gravel is a pelletized form of Lynconite II. It can be used as an alternative to mixing Lynconite II on-site. Rather than mixing with water prior to installation, the pellets are poured in the hole or trench and then covered with water.

Test Wells:
Lyncole offers several test wells and cover boxes, including both traffic rated and non traffic rated products.

The XIT electrode begins as a 1/16 inch thick copper pipe. The pipe is filled with Calsolyte which is Lyncole's proprietary formulation of non-toxic, natural earth salts that never needs to be refilled. The electrode is installed with Lynconite II backfill material that provides a PH balanced environment, inhibiting corrosion and lowering the resistance to ground. The grounding system is also constantly replenishing moisture into the soil so no watering is necessary after installation.

The cover box allows the system to be installed at grade/floor level and provides air to access the breather holes at the top of the electrode. Once the air enters the electrode via the breather holes, moisture is absorbed by the Calsolyte salts.



As moisture accumulates, it drips down through the electrode absorbing the salt ions to become a conductive electrolytic solution. This electrolytic solution weeps out of the holes at the bottom of the electrode forming electrolytic roots in the soil.

This action is very beneficial. Over time the continual weeping provides stable grounding system performance that will be insusceptible to environmental variables, such as changes in temperature and precipi tation and may improve with time.

The "L" shaped system works the same as the vertical straight electrode, except the weep holes are along the bottom of the horizontal section of the electrode.

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