



arxada

WolmanizedWood.com

CLIMB WITH CONFIDENCE TO THE TOP OF YOUR ET® POLES

ET® oil emulsion is the only pole
additive consistently available
and reliable for more than

30 years
– just ask a lineman!

**ET®
TREATMENT**

EMULSION TECHNOLOGY

The ET® pole combines the longevity and cleanliness of CCA poles with the climbability of oil-impregnated poles. ET® poles are treated with a refined hydrocarbon oil emulsion in the outer layer of the pole following treatment with CCA. The viscous oil emulsion serves as a lubricant, making the pole easier to climb and to work on without affecting the preservative properties of the CCA treatment.

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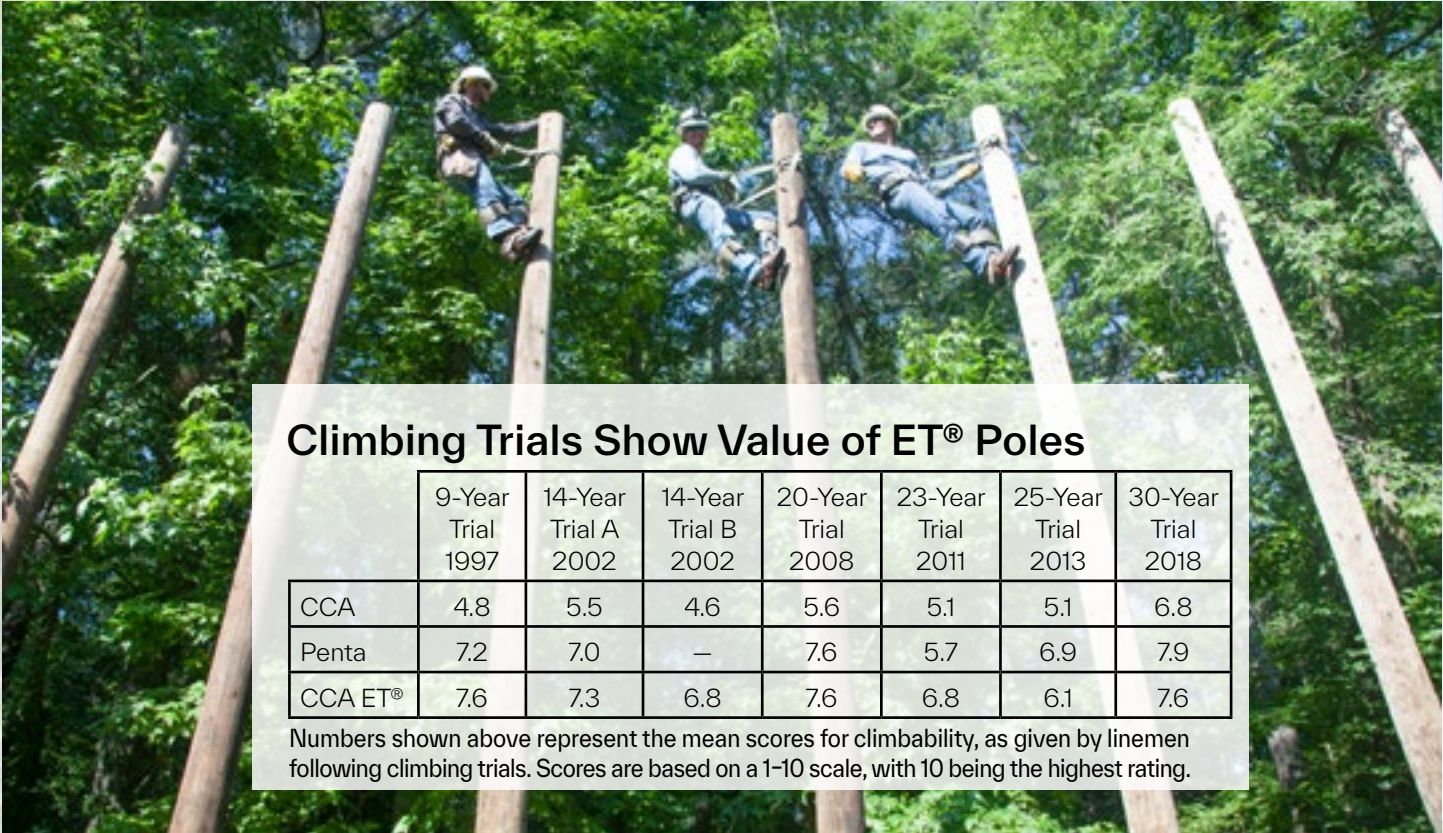
TOP 6 REASONS TO TRUST YOUR ET® POLES



For more than three decades, ET® emulsion has performed as intended, making Wolmanized® Heavy Duty™ CCA poles easier to climb. No other product has ever come close to accomplishing that. ET® emulsion is a complex mixture of co-dependent components such as oils, emulsifiers, adjuvants, etc. Each component has a specific function and while others may seem to be similar, it takes a very precise blending to create the mix of the components to accomplish a continuously performing emulsion that enhances climbability throughout the pole's life. In the case of ET® emulsion, the components were selected to allow the emulsion to withstand the treating process, the exposure to CCA and wood constituents, as well as dirt and other impurities in the solution.

ET® emulsion is a proprietary formula that has performed in all kinds of climates (from the arctic to the Caribbean), weather, water and impurities. There really is no other “just like ET® product”. Although attempts have been made, none have lasted due to their inability to handle the rigors of treating process in a CCA plant and the exposures of CCA poles in service for the expected number of years. Pylodyns and other lab tests may be able to screen candidates, but until it is applied in a real treating plant on real CCA poles and observed and actually climbed over the years, it's just another “climbing additive” wannabe.

1. 30 Years of Climbing Data Exhibits Success in Climbability.



Climbing Trials Show Value of ET® Poles

	9-Year Trial 1997	14-Year Trial A 2002	14-Year Trial B 2002	20-Year Trial 2008	23-Year Trial 2011	25-Year Trial 2013	30-Year Trial 2018
CCA	4.8	5.5	4.6	5.6	5.1	5.1	6.8
Penta	7.2	7.0	—	7.6	5.7	6.9	7.9
CCA ET®	7.6	7.3	6.8	7.6	6.8	6.1	7.6

Numbers shown above represent the mean scores for climbability, as given by linemen following climbing trials. Scores are based on a 1-10 scale, with 10 being the highest rating.

2. Quality Control Measures Ensure Quality Product.

- ET® oil emulsion comes with the full Arxada package, including a Quality Control Manual designed with strict guidelines for product use.
- + Quality testing is performed on the preservative solution and the treated utility poles. Their testing is followed up by additional testing at Arxada's in-house state-of-the-art laboratory.
 - ++ Arxada pays for independent, third-party testing to be performed at licensed treaters quarterly. The data is analyzed by the third-party agency as well as Arxada.

3. Study Confirms: ET® Extends Life of Poles.

Time has shown there is no better treatment than the original, ET® oil emulsion, in either clear or brown as confirmed by testing conducted at Mississippi State University and reported in the Forest Products Journal (<https://doi.org/10.13073/FPJ-D-20-00056>). ET® treatment, with its unique and proprietary formula of oil and emulsion agents, has proven to improve the climbability of CCA poles for more than 30 years. Field testing has also shown that ET® actually extends the overall service life of CCA treated wood.

4. ET® Poles Offer Major Benefits.

- RUS (formerly REA) approved.
- Longevity of CCA-treated wood because of its resistance to termites and fungal decay for decades.
- Excellent climbing characteristics confirmed by numerous field trials on both new and aged poles.
- Eliminates need to rotate poles during storage due to the emulsion's high viscosity.
- Easier to saw, drill and nail into than regular CCA poles because the emulsion additive acts as a lubricating oil.
- Retention of oil can be readily verified by inspection agencies – a difficult task with other additives.
- Available in clear emulsion or with a brown colorant. ET® brown is also available for ACZA-treated poles.

5. Backed by Warranty.

All Wolmanized® CCA-treated poles, including those with ET® emulsion, are backed by a 50-year limited warranty covering damage from termites and fungal decay.

6. Proven Environmental Benefits.

A life cycle assessment confirmed that CCA utility poles use less energy and resources, have a reduced environmental impact, and offset fossil fuel use, when compared to concrete, steel and fiber-reinforced composite utility poles.

For a full report and more information, visit WolmanizedWoodHD.com/poles.

ALL THE ADVANTAGES OF CCA POLES

Wolmanized® CCA poles have a number of features which make them the utility poles of choice.

Low Conductivity. The Wolmanac® preservative used in CCA poles is an oxide, so there are no salt by-products to increase conductivity. The low conductivity of dry Wolmanized® poles provides protection against the effects of current leakage.

Low Corrosivity. Fasteners, including galvanized bolts, metal pole steps, and lag screws, that meet ASTM A 153 are recommended.

Strength. Testing on full-size poles has shown the CCA treatment does not significantly affect bending strength and, in some species of wood, may even increase it slightly.

Fixed Preservative. Because of CCA fixation in the wood, there is virtually no migration. As a result, remedial groundline treatment is not required for aging poles and rotation of poles in storage is unnecessary.

Cleanliness. Since the preservative is carried into the wood in a water solution and is highly leach resistant, CCA poles are non-oily and non-staining to utility work crews and to people who might come in contact with them.

Health risk assessment. A respected environmental consulting firm, Gradient Corporation, conducted a human health risk assessment on children who play near CCA poles and workers with exposure to these poles. The assessment found that exposure to CCA-treated utility poles and adjacent soils is significantly less than the intake of naturally occurring inorganic arsenic in food or tap water.