

# WHY YOUR UTILITY SHOULD BE USING COPPER NAPHTHENATE TREATED WOOD UTILITY POLES



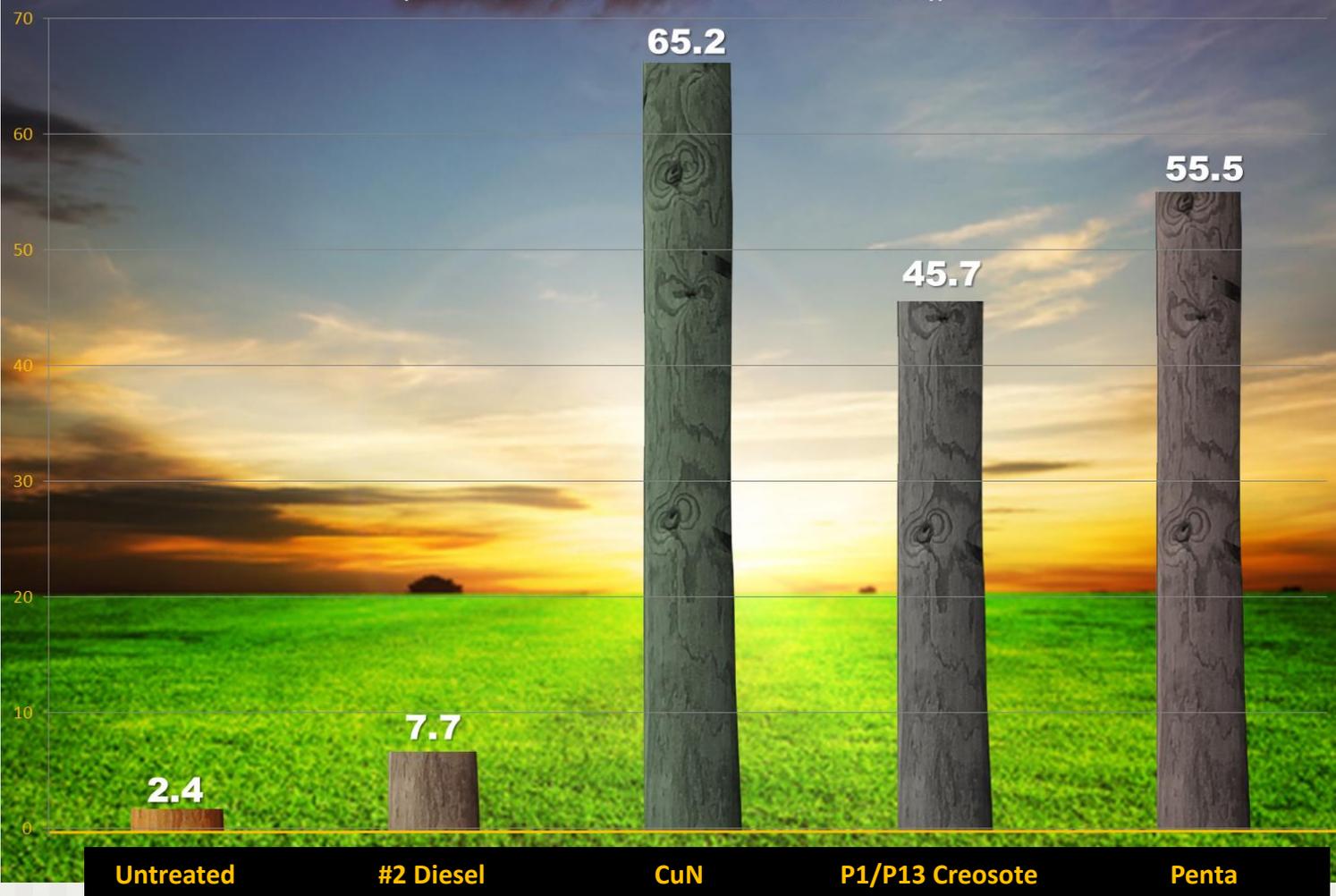


**Q** **NAP**<sup>®</sup>  
**COPPER NAPHTHENATE**

# QNAP UTILITY POLES LAST LONGER

## Estimated Average Years of Service Life

(60th Percentile; USDA FPL RN-01; MS So. Pine Post Study)



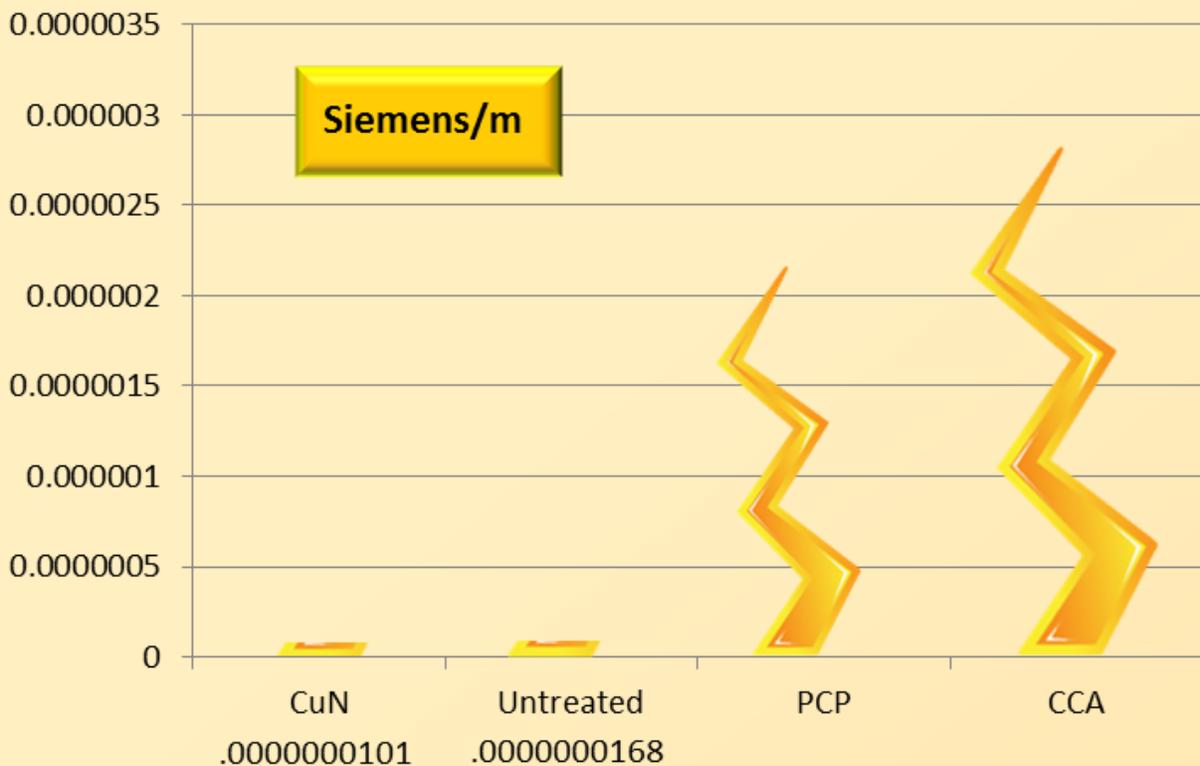


## ENVIRONMENTAL COMPARISON

CATEGORY	PENTA	QNAP	COMMENTS
HAPs - ACTIVE INGREDIENT (EPA)	YES	NO	Pentachlorophenol is an EPA-listed hazardous air pollutant.
HAPs - TREATED WOOD, PPM	7527	111	Total SVOCs (PAHs & pentachlorophenol) and HAP metals (TWC 2015)
LIFE EXPECTANCY (USDA FPL)	56 YEARS	65 YEARS	Concentrates were diluted in petroleum oil. Freeman et al. 2005. Proc. AWPA. 101:136-143.
CLASSIFICATION	RESTRICTED USE	<b>GENERAL USE</b>	Restricted use requires that product is used only by state-licensed licensed applicators or persons under their direct supervision.
TOXICITY CATEGORY	1	3	Toxicity category is a rating of toxicity with 1 being more toxic than 2
SIGNAL WORD	DANGER	WARNING	
RCRA LISTED HAZARDOUS WASTE	F021, F027, F028, F032 K001	NOT LISTED	QNAP is not listed as a hazardous waste
OSHA SELECT CARCINOGEN	PROBABLE CARCINOGEN	NOT LISTED	QNAP is not listed as a carcinogen or probably carcinogen
CERCLA RQ, LBS	10	NONE	No reportable quantity requirement under CERCLA if QNAP is spilled.
MEDIAN LETHAL DOSAGE FOR A 150 LB PERSON, GRAMS	1.8	136	QNAP median lethal dosage is ~75 times that of pentachlorophenol (higher MLD = less toxic)
GAFF PENETRATION; FORCE REQUIRED FOR 0.475" PEN., LBS (UNTREATED POLE = 422 LBS)	454	232	Penta requires almost twice as much force as QNAP using 9206 gaff. Untreated southern pine requires half again as much force as QNAP. Ref: Shupe et al. 2011. Proc. AWPA. <u>107</u> : 150-152.
CONDUCTIVITY (Siemens/meter) (Untreated pole = 1.68 x 10 <sup>-8</sup> ) (Lower value = less conductive)	2.13 x 10 <sup>-6</sup>	1.01 x 10 <sup>-8</sup>	Penta is >200 times more conductive QNAP is essentially identical to untreated wood. Ref: Ragon et al. 2010. Proc. AWPA. <u>106</u> : 153-167.
SOLUTION CORROSIVITY (Mild Steel, mils/year, in #2 fuel oil)	2.1	< 0.5	Exposed 2 weeks at 230-260°F; 1% Cu and 7% penta.

# QNAP COPPER NAPHTHENATE IS LESS CONDUCTIVE THAN PENTACHLOROPHENOL OR CHROMATED COPPER ARSENATE

Treated Wood Resistivity  
Copper Naphthenate is Non-Conductive





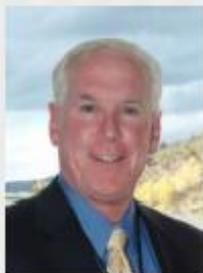
# INTRODUCING QNAP<sup>2</sup> COPPER NAPHTHENATE RTU

## Meets AWPA M-4 End Cut and Field Cut Requirements for Above & Below Ground use with All Wood Preservatives

Now there is a copper naphthenate 2% oil-borne preservative that can be used in the field as a brush-on applications for end-cuts, dap cuts, drill holes and other applications where treated wood needs protection.

QNAP2 can be used for:

- Bridges
- Pilings
- Utility Poles
- Crossarms
- Railroad Ties
- Lumber



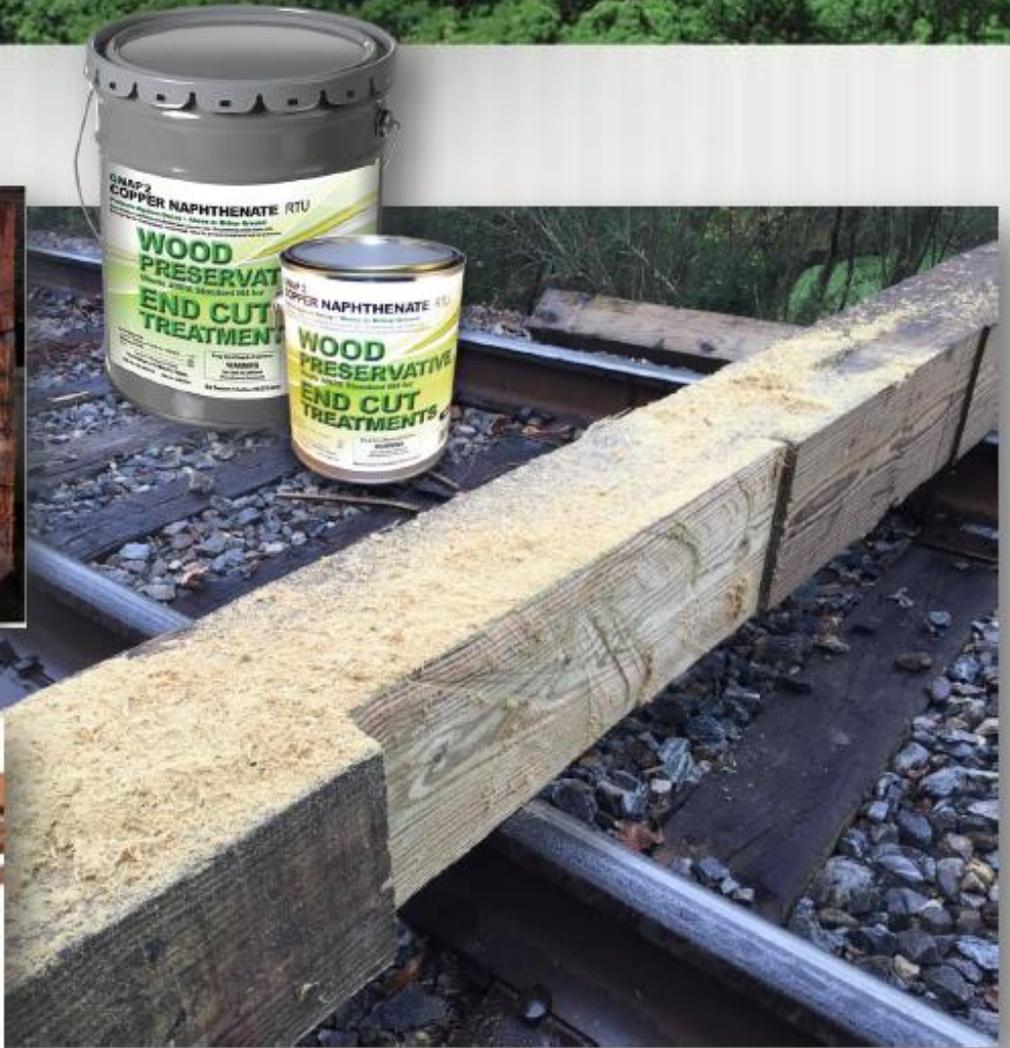
For More Information Contact:  
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Note: Will have a slight green tint



800-264-0870 • [www.nisuscorp.com](http://www.nisuscorp.com)



Smart Preservatives

800-264-0870 • [www.nisuscorp.com](http://www.nisuscorp.com)

# COPPER NAPHTHENATE UTILITY POLES ARE AVAILABLE FROM THESE TREATMENT PLANTS

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