

IF YOU'RE LOOKING FOR **GREEN** SOLUTIONS FOR RAILROAD CROSSTIES,

switch ties, bridge timbers and pilings, Nisus Corporation has the answers. We manufacture copper naphthenate under the QNAP™ brand and a Disodium Octaborate Tetrahydrate (DOT) borate wood preservative under the Cellutreat® brand. QNAP can be used as a stand-alone or as a dual treatment with Cellutreat. Cellutreat can be used as a dual treatment with QNAP or creosote. Both copper naphthenate and DOT are EPA-registered “general use” preservatives and standardized by the American Wood Protection Association (AWPA). Let us show you how these products can create a greener tie and timber program for your company.



QNAP™
COPPER NAPHTHENATE

CELLUTREAT®
DOT BORATE WOOD PRESERVATIVE

A GREEN SOLUTION WITH PROVEN PERFORMANCE



QNAP is an 8% Cu oil-borne copper naphthenate solution that is an EPA-registered, non-restricted use/general use preservative also adopted as standard by the AWWPA. The product is created from recycled copper and by-products of oil refining – making it green from the start. QNAP has performance equal to all other oil-borne/oil type preservatives. Use of QNAP requires no special equipment. Wood treated with QNAP is non-hazardous waste, which allows for recycling or energy recovery.



QNAP PROVIDES THESE BENEFITS TO THE RAILROAD INDUSTRY

- AWWPA Standards U1 Section 6C & P36
- Non-Conductive/Non-Corrosive
- Efficacy Equal to Other Oil-Borne/Oil Type Preservatives
- Less Dripping/Bleeding in Commercial Experience
- Cleaner Handling Characteristics
- Allows Recycling and Energy Recovery
- Same Lubricating Properties as Other Oil-Borne Preservatives
- Compatible with Cellutreat Borate Pretreatment
- Cost Effective, Non-Restricted Use Pesticide

Wood ties reduce environmental impact.

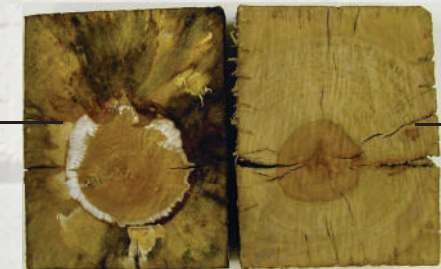


Cellutreat is a Diosodium Octaborate Tetrahydrate (DOT) wood preservative that is available in a 98% water soluble powder and a 50% liquid concentrate. Cellutreat is made from a natural mineral salt and is an EPA-registered, non-restricted use/general use preservative also standardized by the AWWPA (P25). It can be applied to green wood prior to air seasoning by vacuum pressure, dip diffusion or spray.

CELLUTREAT® DOT BORATE WOOD PRESERVATIVE

CELLUTREAT PROVIDES THE FOLLOWING BENEFITS:

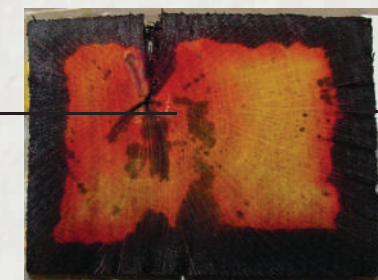
*Crosscut of gum tie
without Cellutreat,
air seasoned for one year
— Showing fungi*



*Crosscut of gum tie
with Cellutreat,
air seasoned for one year
— NO decay*

- Use as Part of a Dual Treatment
- Eliminates Decay/Stack Burn During Air Seasoning
- Improves Treatment and Performance of QNAP or Creosote Ties
- Allows for QNAP or Creosote Retention Reduction
- Eliminates Corrosion-Induced Spike Kill
- Helps Prevent Termite Infestation (Including Formosan) and Termite Movement in Ties When Shipped

*Penetration of
borate using Cellutreat*



*Pressure treatment with
QNAP or Creosote*