

Tanalith® E Wood Preservative

Copper based protection for outdoor wood products



Product Information

Tanalith® E Wood Preservative is our water based Copper Azole formulation. An industrial use wood preservative for the protection of timber products including those to be used for sensitive end uses such as decks, handrails, outdoor furniture, playground equipment as well as for council and national park projects.

It is a stable water soluble wood preservative providing a lower corrosion impact on treatment plants and equipment as well as the fixings and fasteners used with treated wood products. A proven for above and inground applications up to Hazard level H5 providing enhanced durability and longevity of service.

Tanalith® E Wood Preservative is available directly from Lonza Wood Protection.

To commence treatment with **Tanalith® E Wood Preservative** or to seek additional information, contact the Lonza Wood Protection team today.

Phone: 1300 650 636



Tanalith® E Wood Preservative

Technical Information



CHEMICAL & PHYSICAL PROPERTIES

Active	12.4% w/w (16.1% w/v) Copper (Cu) present
Constituents:	as cupric carbonate. ethanolamine complex 6.4g/L tebuconazole (CAS 107534-96-3)
Appearance:	Deep blue liquid
Odour:	Slight amine odour.
Density:	1.3g/ml @ 20°C
Flash Point:	Non flammable
Viscosity:	225 centipoise @ 20°C
pH:	9.2 @ 5% concentration
Reactivity:	May react with oxidising materials and strong acids. Corrosive to copper metal and copper based alloys.

DIRECTIONS FOR USE

TREATMENT SOLUTION

Tanalith® E Wood Preservative is diluted with water to an appropriate concentration for the hazard class intended for the timber product and the process used for treatment. Ensure treatment solutions are thoroughly mixed as they may separate into phases during storage.

PREPARATION OF TIMBER

Timber to be treated should be clean, dry and free of decay and insect attack. Sawn Radiata pine should be either air or kiln dried to less than 20% moisture content, prior to treatment. For round wood (posts, piles, poles) it is possible to treat steamed wood although APM (alternating pressure method) is not recommended. Consult Lonza Wood Protection for specific advice in these cases and for the treatment of other species.

TREATMENT OF TIMBER

As a variety of treatment processes are used commercially, you should seek specific details from your Arch Wood Protection technical representative. Use of Bethell (full cell) or Modified (modified full cell) type schedules is normally recommended. Other more extreme schedules may be possible in certain circumstances. Consult your Lonza Wood Protection technical advisor for further details. After treatment, timber must be held on a sealed drip-pad until all dripping ceases. Collected drip should be returned to the treatment plant for re-use. Avoid cross contamination with other preservatives as this may contribute to sludge formation.

FUNCTION

Tanalith® E Wood Preservative is a water-soluble, chromium and arsenic free wood preservative designed for industrial application using a purpose-built vacuum/pressure treatment plant.

Use of pressure treatment allows the preservative to be forced deep into the wood to give long lasting protection against insects (such as borers and termites) and decay fungi.

Tanalith® E Wood Preservative has been approved by APVMA as an industrial use wood preservative. Tanalith® E Wood Preservative contains copper, an element widely recognised for its fungicidal properties as well as providing protection against termites and other insects. The additional co-biocide tebuconazole is a modern triazole type fungicide compound which provides protection against a wide range of decay fungi.



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It is recommended to hold timber for at least 2 days after treatment before kiln drying. Kiln redrying schedule should be moderate only (60°/90° max).

Hazard Class	Minimum analytical retention, %m/m ⁽¹⁾		Minimum retention kg/m ³ , (Tanalith® E Wood Preservative Concentrate),	
	Softwood	Hardwood	Softwood ⁽²⁾	Hardwood ⁽²⁾
H3	0.229	0.28	9.48	22.07
H4	0.416	0.499	17.23	38.66
H5	0.759	1.082	31.24	84.29
1 - As per AS1604.1 - 2012.				
2 - Minimum retention as per label				

TABLE 1. PRESERVATIVE RETENTION GUIDE

The figures provided above for minimum charge retention are provided as a guide only and do not take into account variations of density and/or sapwood content. Seek specialist advice regarding your resource, for the recommended net kg/m³ charge retention from your Lonza Wood Protection representative.



3.4 PLANT AND ENGINEERING REQUIREMENTS

Tanalith® E is suitable for use in vacuum pressure impregnation plants with little or no modification. The solution is corrosive to brass and other copper alloys so any yellow metal components need to be changed to stainless steel. While it is possible to operate both Tanalith® E and CCA in the one facility, specific engineering modifications and operation procedures are required as the solutions are not compatible. Consult your Lonza Wood Protection representative for further details.

3.5 OTHER RECOMMENDATIONS

Use of sterilants in the treatment solutions is recommended. The product is formulated with an anti-foam additive. However some plants may require additional anti-foam agent. Consult your Lonza Wood Protection technical advisor for further details.

SAFETY AND HANDLING

HANDLING THE PRODUCT

Tanalith® E Wood Preservative is harmful if swallowed, and may be irritating to eyes and skin. Use of appropriate personal protective equipment, sensible work clothing and work practices are important to ensure the safe use of this product. Refer SDS prior to use.

TRANSPORT AND STORAGE

UN No: 3082, Environmentally Hazardous Substance, Liquid, N.O.S. ADG Class 9, Packaging Group III, Hazchem Code: 2X
Refer SDS prior to use

STORAGE

Store the concentrate in secure bunded areas in the original containers or purpose built tanks (polyethylene or stainless steel only). Protect all concentrate from freezing. Prevent any contact with acids or oxidizing materials. The diluted product can be stored in mild steel or polyethylene tanks conforming to relevant standards. Brass or aluminium fittings should be avoided.

SPILLS AND DISPOSAL

Contain spillage with sand, sawdust or other suitable absorbent. Prevent the spill entering drains or waterways. Pump any recoverable liquid into suitable containers for re-use or disposal. Absorb residue with sawdust or other absorbent and collect for disposal by way of an approved landfill. Do not burn contaminated wastes as toxic fumes and residues may be produced.



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