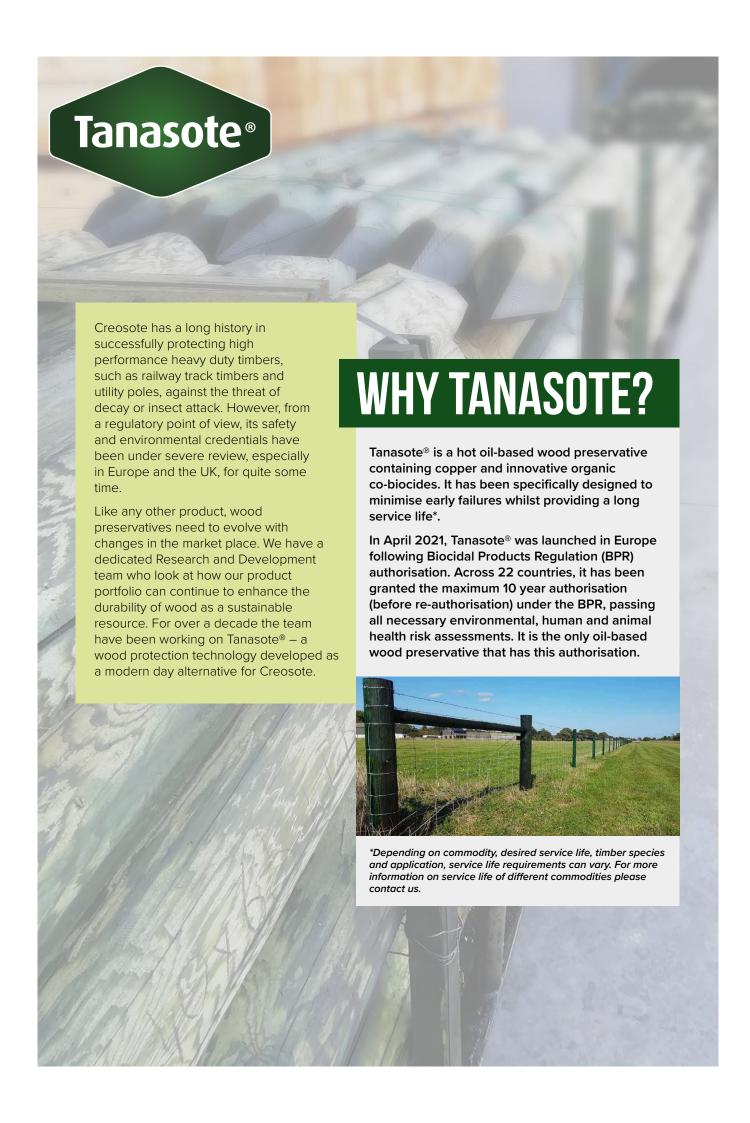
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KEY FEATURES OF TANASOTE

- Hot oil-based copper preservative designed to offer a high performance alternative to traditional Creosote treatments.
- Depending on timber species treated, and end-use application, Tanasote® has been designed to deliver a service life of 40+ years*, whilst minimising the risk of early failures.
- Oil-based product provides deep preservative penetration and mobility in the wood.
- Innovative organic co-biocide protecting against a wide spectrum of aggressive decay fungi.
- Incorporates a long lasting waterrepellent to minimise splitting.
- Low odour from the preservative and the treated timber.
- Across Europe, Tanasote® has been granted the maximum 10 year authorisation (before re-authorisation) under the BPR.

- In the Risk Assessments¹ commissioned for the BPR Product Assessment for Tanasote® it was evidenced that:
 - No issues are to be expected when it (the product) is handled, stored or applied as recommended;
 - No unacceptable risk is identified for professionals or non-professionals working with Tanasote® treated timber, or for the general public;
 - Tanasote® treated timber is considered acceptable for the infants in a playground risk assessment scenario —please note, Tanasote® has not been designed for this particular enduse application, but it reinforces the acceptable risk that the BPR process has identified.
- Full Life Cycle Analysis available for Tanasote® treated utility poles and track timbers.
- It is both NWPC NTR and FCBA CTB P+ approved.
- The efficacy data for Tanasote® has been reviewed by BM TRADA, a reputable independent third-party assessor.
- It is award winning Tanasote® won the Innovation Award at the Wood Protection Association (WPA) Awards, 2021.
 - * Depending on timber species treated, and end-use application, Tanasote® has been designed to deliver a service life of 40+ years.*
 - ¹ For further detail refer to the BPR Product Assessment Report for Tanasote® S40, 2021







RAILWAY SLEEPERS

UTILITY POLES

LANDSCAPING TIMBERS



TRUST IN PERFORMANCE THROUGH TESTING

The testing of wood preservatives is a well-documented procedure, covering both laboratory and field testing. In the development of new products across Europe and the UK, wood preservatives are commonly referenced against CCA and tested to the following Standards:

- EN 252 This European Standard specifies a field test method for evaluating the effectiveness of wood preservatives in a ground contact situation. To assess the protective effect of the preservative, wood treated with a reference preservative is included for comparison.
- EN599-1:2009 + A1:2013 For each of the five use classes defined in EN 335-1, this Standard specifies the biological tests required for evaluating the efficacy of wood preservatives for the preventive treatment of solid timber, together with the minimum ageing tests required for the respective use class.

Whilst the above EN Standards have played a significant part in the development of Tanasote®, they typically are used to predict a service life of between 15 to 30 years. For heavy duty timbers, it is imperative that a longer service life is provided, so as a business we have engaged in additional testing that goes above and beyond standard requirements.

To prove real world performance in the most demanding of environments, Tanasote® has been subject to additional testing in high humidity and aggressive field test sites as well as laboratory fungal studies. Testing of water-repellent properties has also been undertaken.

ACCELERATED FIELD STAKE TESTS

In the development of Tanasote® we adopted the Fahlstrom stake test method, which is an accepted fast approach to determine decay in a realworld environment through the use of thin stakes. The combination of a very small size and harsh conditions at the aggressive, high humidity field site in Florida, has enabled us to evaluate the long-term performance of Tanasote® treated timber compared with CCA as the reference preservative. In this testing we went beyond the standard CCA retention to demonstrate performance against preservative retention known to deliver a service life of 40 years. In addition, we also compared Tanasote® with a water-based copper wood preservative treatment.



Florida field stake test



ASSESSING ENVIRONMENTAL IMPACT

Investment in life cycle analysis (LCA) to evaluate the environmental impact of a product from cradle to grave is critical when comparing wood products with alternatives. For the development of Tanasote®, an LCA was carried out by independent practitioners following ISO 14040 and ISO 14044.

The LCA 'ReCiPe' method was adopted, covering analysis of the following three categories for end use applications such as railway sleepers and utility poles:

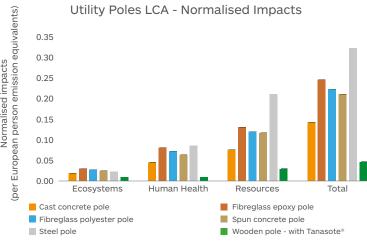
- (i) damage to ecosystem;
- (ii) damage to human health; and
- (iii) damage to resources.

A sensitivity analysis was also completed to assess the influence of agricultural land occupation and terrestrial land transformation as part of the LCA.

SUMMARY OF LCA FOR UTILITY POLES

Looking specifically at utility poles, the LCA² results show that Tanasote® treated wooden poles were the lowest impact pole type when compared against a cast concrete pole, fibreglass polyester pole, steel pole, spun concrete pole and fibreglass epoxy pole. The Tanasote® treated wooden pole had the lowest impact in damage to ecosystems, damage to human health and damage to resource. Several sensitivity analyses also showed that the Tanasote® treated wooded pole was the lowest impact option.







FIND OUT MORE

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Tanasote® is a wood preservative developed and manufactured by Arxada.



Use wood preservatives safely. Always read the label and product information before use.

All product information corresponds to Arxada's knowledge on the subject at the date of publication, but Arxada makes no warranty as to its accuracy or completeness and Arxada assumes no obligation to update it. Product information is intended for use by recipients experienced and knowledgeable in the field, who are capable of and responsible for independently determining the suitability of ingredients for intended uses and to ensure their compliance with applicable law. Proper use of this information is the sole responsibility of the recipient. This information relates solely to the product as an industrially applied, high pressure wood preservative. It may not be applicable, complete or suitable for the recipient's finished product or application; therefore republication of such information or related statements is prohibited. Information provided by Arxada is not intended and should not be construed as a license to operate under or a recommendation to infringe any patent or other intellectual property right. No claims are made herein for any specific intermediate or end-use application. All trademarks belong to Arxada or its affiliates or to their respective third parties and are used here only for informational purposes. © 2023 Arxada