

Health through wood.

-Hygienic Wood Mats-



Foreword

More than pretty and practical.

Many appreciate wood for its beauty, aesthetic appeal and the pleasant, warm atmosphere that it creates. Others see the static and practical properties of wood in the foreground. Few, however, agree on the health properties of wood. In particular the unprecedented and still largely untapped health properties of pine heartwood.

The long-living Bristlecone Pines of California live up to 4,000 years and older. They are older than the pyramids and reach an altitude of 3,300 meters. "Paradoxically, the pines get so old because they continually cope with the adverse growing conditions," said Patti Wells, a botanist with the U.S. Forest Service. Pine wood is very resinous and thus a good protection against fungi and insects. But even insects use this plant's defensive advantage. Swiss researchers found evidence that ants arm themselves with small pieces of resin for protection against bacteria and fungi, greatly increasing their survival rate. Birds and bees also use the resin to seal their nests.



Development for a healthy living environment

Based on these health effects, various products have recently been developed by the Wilms® company which use the germ- and fungi-killing effect for people. The skin care product Wilms® PineGold, uses the active ingredients and the strength of the wood to care for the skin and to alleviate various skin ailments. The Wilms® Hygienic Wood Bath Mat is anti-fungal and especially good for people who have or are preventing problems with athlete's foot or other foot fungus.

The Bed Mat is a type of mattress made from pine heartwood which has been proven to be antibacterial and germ-free. Especially important however is the mite-reducing effect which helps allergy sufferer and the deeper, restful sleep that is achieved.

Pine heartwood kills bacteria and germs quickly and thoroughly. This phenomenon has existed over millions of years in nature and was perfected to help trees to survive. The Wilms entrepreneurs say that, „The strong germ-reducing properties of the wood have been known for centuries. We should take advantage of these positive qualities!“ ■



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1. Wilms® Hygienic Wood Bed Mat

With use of the Wilms® Hygienic Wood Bed Mat can make a decisive contribution to a deeper, more restful sleep. The natural germ and bacteria-killing effects and the essential ingredients of wood provide a particularly good night's sleep.

1.1 Product Information

Healthier sleep with pine heartwood

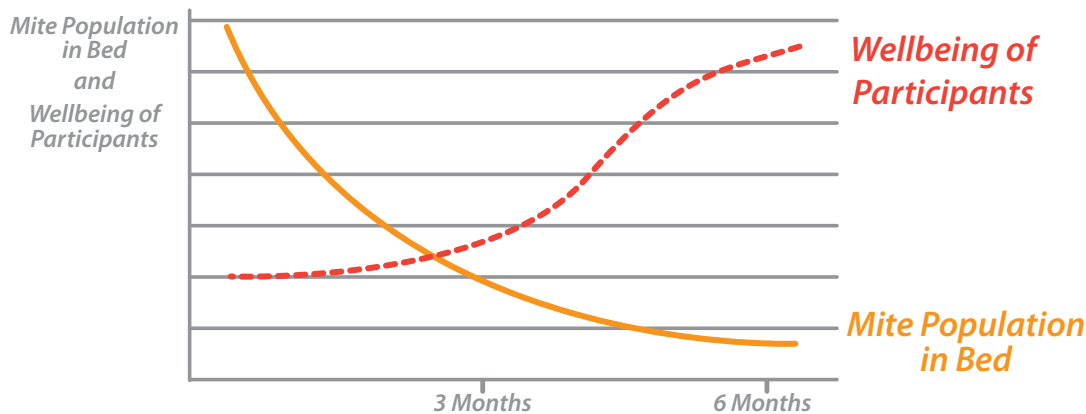
The Wilms® Hygienic Wood Bed Mat is a type of mattress cover containing the bacterial- and mite-reducing materials of pine heartwood. These ingredients have also shown to aid in a deeper, healthier sleep.

The Bed Mat is made of special, pine heartwood and zirbe pine wood. It is proven to improve sleep quality!



From the Research:

80% Less mites! Less allergy symptoms!



Research: 32 allergy sufferer | 6 months of test period

Tested and confirmed by University of Greifswald _ 2009/2010

In a recent study by the University of Greifswald in Germany, 50 allergy sufferer were given a Wilms® Hygienic Wood Bed Mat. In order to measure their exposure to mites, they were asked a series of questions about their health and well-being.

Result: more than 80% less mites in bed and a decrease of allergy symptoms by more than 80% of the test participants.



Reduces the number of bed mites

Products made of Wilms® Hygienic Wood naturally create an unfavorable environment for mites, therefore substantially lowering the risk of allergic reactions. Dr. Hans Dautel and Dr. Cornelia Dippel of „INSECT SERVICE“ discovered through testing that there was evidence to show that Hygienic Wood has a large effect on mites. When compared to cotton, the number of mites on the Bed Mat was 98.9% lower. Because of this, allergic reactions can be greatly reduced.



Thermal adjustment - Less sweating

The characteristics of the mat allow it to take in moisture and deplete humidity. This leads to a more pleasant temperature under the blankets. Moisture is absorbed into the wood and sweating is minimized. During the day, blankets should be left at the foot of the bed so the wood can naturally return moisture to the air.

Gentle Massage

Barely noticeable but very effective. The unique surface of the mat gently massages and promotes relaxation. This stimulatory effect calms the entire nervous system and promotes circulation.

Small Chips - Big Results

The Bed Mat consists of over 2,000,000 tiny wood chips which are pressed onto a base material. The number of chips in this form creates an extremely large surface area. This helps with the absorption of germs and bacteria which is how they are then eliminated. In addition, the use of chips allows for the wood to be a flexible material and soft to lie on.



Types and application of the Bed Mat

The Premium Bed Mat consists of four Universal Mats in a large, special covering. These individual mats can then be changed or replaced. They are simply inserted into the original covering.

The Standard Bed Mat consists of four individual Hygienic Mats with a large, non-woven cover for protection. This is the optimal choice for those wanting to be closer to the natural wood.

The mats are a type of mattress cover which are just beneath the bottom sheet. They are held in place by the Elastic Fastening Clips that are included in the package.

The mats are available in standard sizes. Larger sizes in length and/or width can be special-ordered. ■



1.2 Advantages



Better Sleep

The natural ingredients of Hygienic Wood have a calming effect which makes it easier for people with sleep disorders to get adequate rest. The positive effects of pine heartwood ingredients were proven when bedroom furniture made from pine heartwood had a direct influence on heart rate. A greater decrease in heart rate when sleeping was detected thereby showing the increase in sleep quality.

Reduced quantity of mites - Fewer allergy symptoms

Products made of Wilms® Hygienic Wood naturally create an unfavorable environment for mites, therefore substantially lowering the risk of allergic reactions. Dr. Hans Dautel and Dr. Cornelia Dippel of „INSECT SERVICE“ discovered through testing that there was evidence to show that Hygienic Wood has a large effect on mites. When compared to cotton, the number of mites on the Bed Mat was 98.9% lower. Because of this, allergic reactions can be greatly reduced.

Thermal Adjustment - Less Sweating

The characteristics of the mat allow it to take in moisture and deplete humidity. This leads to a more pleasant temperature under the blankets. Moisture is absorbed into the wood and sweating is minimized.

From the Research

„... 98.9% fewer mites in six weeks...”

Institute of Insect Services

Dr. Hans Dautel & Dr. Cornelia Dippel

Gentle Massage

Barely noticeable but very effective. The variable surface of the mat works as a gentle massage and aids in the relaxation process! ■



1.3 Frequently Asked Questions

How do I use the Bed Mat?

Put the Bed Mat directly on top of the mattress and attach using the elastic clips – directions are included in the package. Once the mat is secured to the mattress, cover it with the bottom sheet and continue to make the bed as normal. The mat remains under the bottom sheet and out of sight.

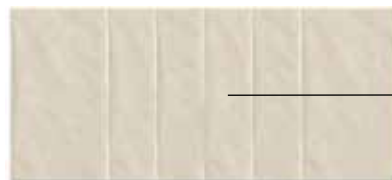
What is the difference between the Standard and Premium Bed Mats?

The main element of the mats (the four Hygienic Wood Mat inserts) is the same.

Standard-Bed Mat: The four Hygienic Wood Mat inserts are in one large hemp sleeve where they each have a separate compartment.



Standard Bed Mat



Four Hygienic Wood
Mats in a hemp cover

Premium Bed Mat: The four Hygienic Wood Mat inserts are individually covered and then put into a high quality sleeve. These individually covered mats can then be changed. The replacement mats are called **Universal Mats** and are available in packages of two.



Premium Bed Mat



Additional hemp
cover

Four individual Standard
Hygienic Wood Mats

With the Standard Mat, the sleeper is closer to the natural wood. For those wanting to keep a little more distance between themselves and the wood, the Premium Mat is ideal.

Many test sleepers have reported that the Premium Mat is warmer and therefore particularly good for winter!

→



Will using the Bed Mat increase my sleep comfort?

Because of the structure of the Mat and the elastic material used, the mat is quite flexible though the surface is somewhat solid. The Bed Mat is adaptable and not restricted to specific types of mattresses. The Mat even works great with Tempur mattresses and water beds.

Due to the adhesive used, when a bedroom is cooler, such as in the winter, the Mat may be slightly stiffer until body warmth is applied.



In what sizes are the Bed Mats available?

The mats are made to be compatable with all standard bed sizes.

Mat sizes	Mattress dimensions
6.1 x 2.8 ft (185 x 85 cm)	6.2 x 2.9 ft (190 x 90 cm)
	6.2 x 3.3 ft (190 x 100 cm)
	6.6 x 2.9 ft (200 x 90 cm)
	6.6 x 3.3 ft (200 x 100 cm)
6.7 x 2.8 ft (205 x 85 cm)	7.2 x 2.9 ft (220 x 90 cm)
	7.2 x 3.3 ft (220 x 100 cm)
6.1 x 4.3 ft (185 x 130 cm)	6.2 x 4.6 ft (190 x 140 cm)
	6.6 x 4.6 ft (200 x 140 cm)
to order	all other sizes

Do the mats come in different thicknesses?

Many different thicknesses were produced and tested. We came to the conclusion that .2 in. is the optimal thickness. →

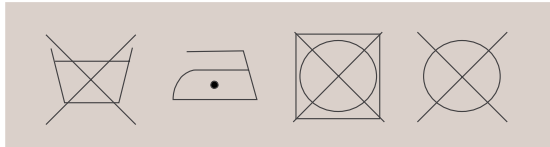


How can the Bed Mats be cleaned?

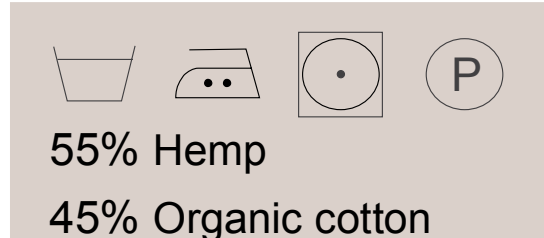
Since the Wilms Hygienic Wood Mats are made of antibacterial wood, they do not need to be cleaned. Furthermore, larger dirt particles will be kept away by the sheet.

If you would still like to clean your mat, we suggest doing it with a damp rag.

The care instructions are also located on the packaging and in an enclosed flyer.



Care tips for the Standard Bed Mat



Care tips for the Premium Bed Mat Cover

How long do the Bed Mats last?

If a mat is used every night, it is best for one to two years. When used on a more seldom basis the lifespan increases.

Since the Premium Mats are made up of four Universal Mats which can be continually replaced, the overall life of the mat is extended each time a mat is replaced. If the two outside mats are occasionally rotated with the mats in the center, the life of the product will also be extended.

How long do the hygienic properties of the mats remain effective?

The germicidal effect is permanent - remaining even after several years.

Even though the scent of the pine wood will diminish over time, the hygienic effect remains. ■



1.4 Research

1.4.1 Protection against mites as an end effect of two types of Wilms® Hygienic Wood Bed Mats

Objectives

Do Wilms® Hygienic Wood Mats have an effect on mites and are they also suitable for people with allergies?

Approach

Two 10 x 10 cm samples - ■ a Wilms ® Hygienic Wood Bed Mat and ■ a piece of cotton carpet - had 25 pairs of mites applied to them. The samples were then isolated in containers so that no mites were able to escape. Over a period of about 6 weeks, the samples were in varying temperatures and humidity, and the mites were then counted.



Development of the mite population on a Wilms® Bed Mat and carpet¹

Result

The Wilms® Hygienic Wood Bed Mat reduced the number of mites greatly in comparison to the carpet sample. The Wilms ® sample had 98.9% less mites than the carpet sample.

Conclusion

Wilms® Hygienic Wood Bed Mats act strongly against mites and are therefore ideal for allergy sufferers.



Implementation

Dr. Hans Dautel und Dr. Cornelia Dippel, IS Insect Services GmbH, Haderslebener Str. 9, 12163 Berlin, 2005.

Approach

¹ Data: Dautel, Hans; Dippel, Cornelia (2005) : Analysis of the mite repelling impact of two types of wood chip mats on house dust mites, S. 7; Graphical composition : Fa. Wilms GmbH



2. Wilms® Bath Mat

With use of the Wilms® Hygienic Wood Bath Mat, fungi and bacteria are eliminated through the natural properties of the wood. On the Bath Mat, germs and bacteria have no chance to grow – this is made possible without chemicals and other additives. Most importantly, the risk of foot fungus/athlete's foot is greatly reduced.

2.1 Product Information

Healthy feet – with pine heartwood.

The Wilms® Hygienic Wood Bath Mat presents a new, natural way to not only combat foot fungus, but also to prevent it. The special ingredients of the pine heartwood chips are antibacterial, germ-killing and most importantly in this case, antifungal. As a mat to be used outside the shower or bath, the Bath Mat serves as a great protection against foot fungus.

The Wilms® Hygienic Wood Bath Mats are made of the same material as the Bed Mat – pine heartwood and zirbe pine.



Simple and effective

The Bath Mat is best used on the floor in front of the shower or bathtub. It is also a good idea to have one in front of the sink. Simply by stepping out onto the Mat after bathing or showering, the mat helps to avoid fungus in three ways:

Firstly, the pine heartwood quickly absorbs moisture on contact and prevents water from pooling. In this way it creates a dry, fungal-free surface for the feet.

Secondly, any pathogens that come in contact with the mat are rapidly carried inside the wood where they are effectively destroyed.

And thirdly, The fungus-inhibiting effect on the feet stems from the fact that when you step onto the Mat, the active ingredients in the wood are set into motion by the moisture and can then effectively kill pathogens.

Confirmed Effectiveness

In a study by the Institute of HygieneNord the Bath Mat was tested not only for private use but also in public areas to measure the effectiveness against foot fungus. The study found that depending on the specific fungal pathogen, the Mats were 90% to 99% effective in killing all fungal organisms. The result: In Wilms® Hygienic Wood Mats, fungal populations, bacteria and germs have no chance to grow. The novelty being that this is accomplished without the use of chemicals or other additives. →



Construction

The chips are pressed onto a base material creating a thickness of 7mm. This mat is then wrapped in a material that allows for water, germs, bacteria and fungi to penetrate into the wood where they are then eliminated.



Sizes of the Bath Mat

The Bath Mat is available in two sizes: 18 x 16.5 in. and 33.5 x 18 in. ■



2.2 Advantages

Optimal protection against foot fungus

The effective ingredients of the Hygienic Wood Bath Mat protect the feet from fungus and bacteria.

It Works!



From the research

„...depending on the type, 90% - 99% of fungi were killed...”

Institute Hygiene Nord

Traps Moisture - Keeps your feet dry!

The moisture-retaining characteristics of the Wilms® Bath Mat quickly absorb the water on your feet. Each time this happens the hygienic qualities of the wood are again strengthened keeping your feet not only dry but also germ-free.

Purely Natural - Reduces germs and bacteria.

Through the wood's own ingredients bacteria and germs have no chance to grow. This is achieved without the use of any chemicals or other additives.

Slip-resistant

The unique texture of the mats gives them a slip-resistant quality, making your bathroom safer. ■



2.3 Frequently Asked Questions

Why is the wood in the form of small chips?

The Wilms Hygienic Wood Mats are made up of many tiny pieces of wood. This is because the larger the surface area is, the greater the effect on germs and bacteria. The wood soaks up moisture and takes in germs and bacteria where they are quickly killed. Due to the large number of small chips, the effective surface of the wood is significantly enlarged.

What is the Wilms® Hygienic Wood Bath Mat made out of?



Outer covering

Wood chips

Inner material

Construction of the mats

Wood chips

The mats are made from small chips of pine heartwood and zirbe wood.

Zirbe portion

Each mat is made of a certain percentage of Zirbe wood. Zirbe is a type of pine and therefore has a similar effect to that of pine heartwood.

Inner material

The inner material of the mat is made of strong, elastic Polyester.

This thin, middle layer holds the mat together.

Since polyester does not absorb water, it also does not attract bacteria or germs. →



Outer Covering

The outer shell is made of thin, durable polyester. This serves as a protective cover layer for the Hygienic Wood. *Polyester does not absorb water, and also does not attract bacteria or germs.*

Adhesive

The adhesive used is a special adhesive used in both the manufacturing of mattresses and also food packaging. It is odorless and fume-free.

In what sizes are the bath mats available?

There are two sizes available:

1.5 x 1.4 ft (46 x 43 cm) – Bath Mat

2.8 x 1.5 ft (85 x 46 cm) – Universal Mat

Mats per package: 2

How long do the bath mats last?

If the mat is used after bathing more than a normal amount, for example by many people in a larger family, the life span of the mat is about half a year.

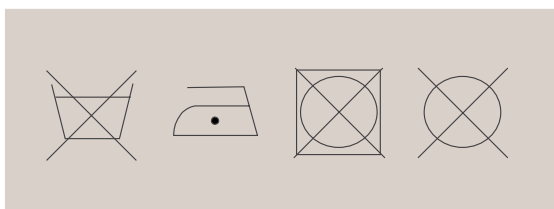
Through normal use, the lifespan of the mats is approximately one year. However, when not used regularly, the mats generally last for about two years.

The lifespan of the mat can also be extended by occasionally turning the mat over.

How do I take care of my bath mat?

Since the Wilms Hygienic Wood Mats are naturally antibacterial, they do not need to be cleaned. If you would still like to clean your mat, we suggest doing it with a damp rag.

The care instructions are also located in an enclosed flyer. After use, you can leave your mat on the floor to dry. It is a natural product that dries quickly. If your bathroom floor is heated from below, the mat dries even faster.



Care Instructions Bath Mat →



Is there a maximum temperature that the mats can withstand?

The mat should not be exposed to temperatures exceeding 140° F.

It is ideal for taking to the spa!

Does the antibacterial and germ-killing effect diminish after time?

The characteristics of the Hygienic Wood and their effect are proven to remain for over 41 months.

After that initial time period, the effect will slowly diminish.

Are the mats environmentally friendly?

Because wood is a natural material, the mat is almost completely biodegradable. The other materials account for only a fraction of the content and are recyclable.

What is the best way to dispose of the mat?

Since the mat is made of almost 100% wood, it can be used as fuel in a wood-burning stove or composted. The outer cover can be recycled. ■



2.4 Research

2.4.1 Foot Fungus-Prevention through Wilms® Hygienic Wood Bath Mats²

Objectives

To what extent can the Wilms® Hygienic Wood Bath Mats be used to measure foot fungus prevention?

Approach

The test materials were infected with 11 different types of foot fungi in a concentration of 1×10^4 cfu / ml (colony forming unit per ml), respectively. The development of fungi on the Wilms® Hygienic Wood Bath Mat was over a period of 6 hours.



Result

The investigations showed that, depending on the species, 90% to 99% of the applied fungal organisms were killed on the Wilms® Hygienic Wood Bath Mat.

Conclusion

Wilms® Hygienic Wood is an effective measure to stop the spread of foot fungal pathogens in private and public institutions.



Implementation

U. Weber, Hygiene Nord GmbH, c/o BioTechnikum,
W.-Rathenau-Str. 49 a, 17489 Greifswald, 2005.

² Data: Weber, Ulrike (2005): K3-Hygiene-Wood(Wood Chip Mats)



3. Wilms® Hygienic Wood

Wilms® Hygienic Wood uses the power of nature found in the heartwood of pine trees. At the center of the tree is where the antibacterial and germ-free ingredients are located. Through a patented process the Wilms® company, reinforces these natural defense properties. The result: Wilms® Hygienic Wood.

3.1 Health through wood

Pine trees have been in our forests for 10,000 years. It is a symbol of resurrection, persistence and perseverance.

Pine is an extremely resilient and strong tree. This is reflected by the areas in which they grow. They are often located in places that are difficult for trees to flourish.

They are found in forests but are also seen growing on bare rock. This shows that pine wood needs highly efficient heartwood properties.



Pine as a remedy

Early on pine wood was often used in home remedies. The resin, for example, was used for the softening of ulcers, and the bark of pine was smoked and used for women’s diseases. The bark and needles of pine were later used in medicine as ointments or baths. Pine was also used for people with rheumatic and lung diseases. In the 12th Century people used pine for coughing or kidney/bladder ailments.

These early applications over time have been studied and many, scientifically confirmed.

For topical application, pine helps with fatigue, insomnia, nervousness, wounds and skin diseases, rheumatism and circulatory disorders.

The wood itself also rids pathogens. In recent years, numerous studies have confirmed the that the wood effectively kills germs, bacteria, viruses and fungi. The studies showed that in particular the core of pine wood has exceptional defense forces.

Wilms® Hygienic Wood is processed pine heartwood. Through a patented process the Wilms company has reinforced this natural defence. This non-chemical process strengthens the absorbtion of the wood so that bacteria and germs quickly transported into the wood and then killing them. Applications for Wilms® Hygienic Wood are endless: cutting boards, bath and bed mats, keyboard covers, etc. Wilms® Hygienic Wood products can be used in multiple types of situations to improve the living environment of people in a natural way. ■



3.2 Research

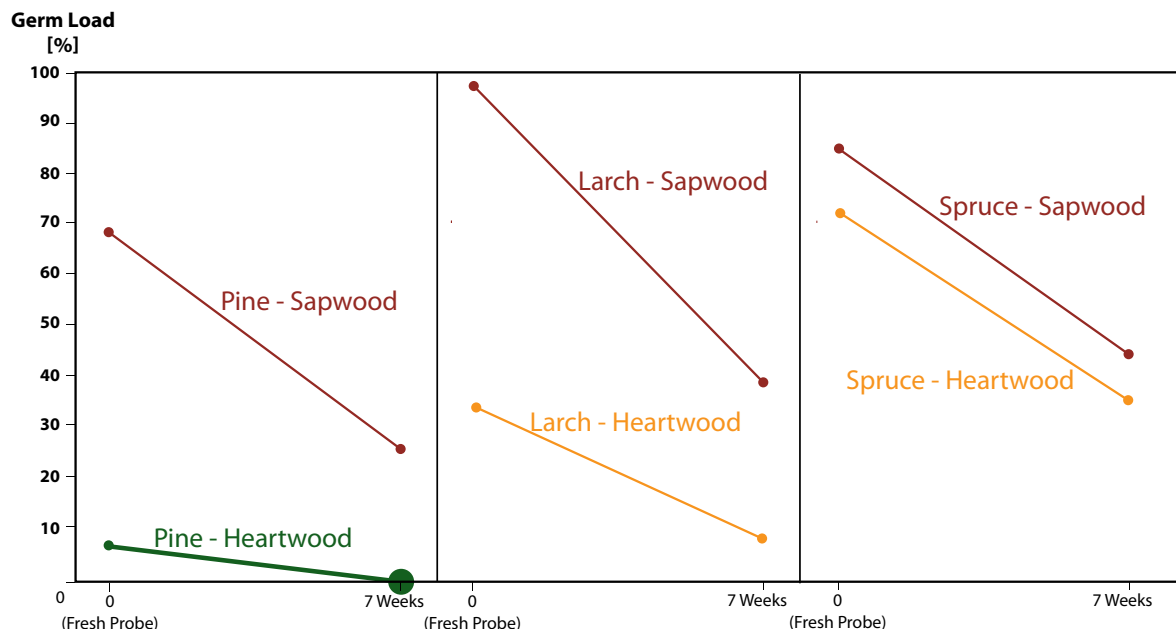
3.2.1 Hygienic and phytosanitary properties of wood and wood products¹

Objectives

Does wood have antibacterial properties? And if so, does the wood species and different fractions make a difference?

Approach

The test materials were 1×10^6 cfu / cm² (total number of bacteria live per sq. cm) infected with the E.coli bacterium. The development of bacterial populations was during a 7-week storage period, and is seen in the graph shown below.



Germ load on different sapwoods and heartwoods³

Result

The results clearly show that when assessing the germ- and bacteria-killing effects of wood, the differentiation between not only the species of the tree is important, but which section of the tree is also crucial.

Conclusion

Germs are most rapidly decreased and killed on pine heartwood.



Implementation

Annett Schönwälder,
Federal Biological Institute for Agriculture and Forestry,
Messeweg 11/12, 38104 Braunschweig, 2000.

³ Data: Schönwälder, Annett (2000), S. 17; Graphical composition: Fa. Wilms GmbH

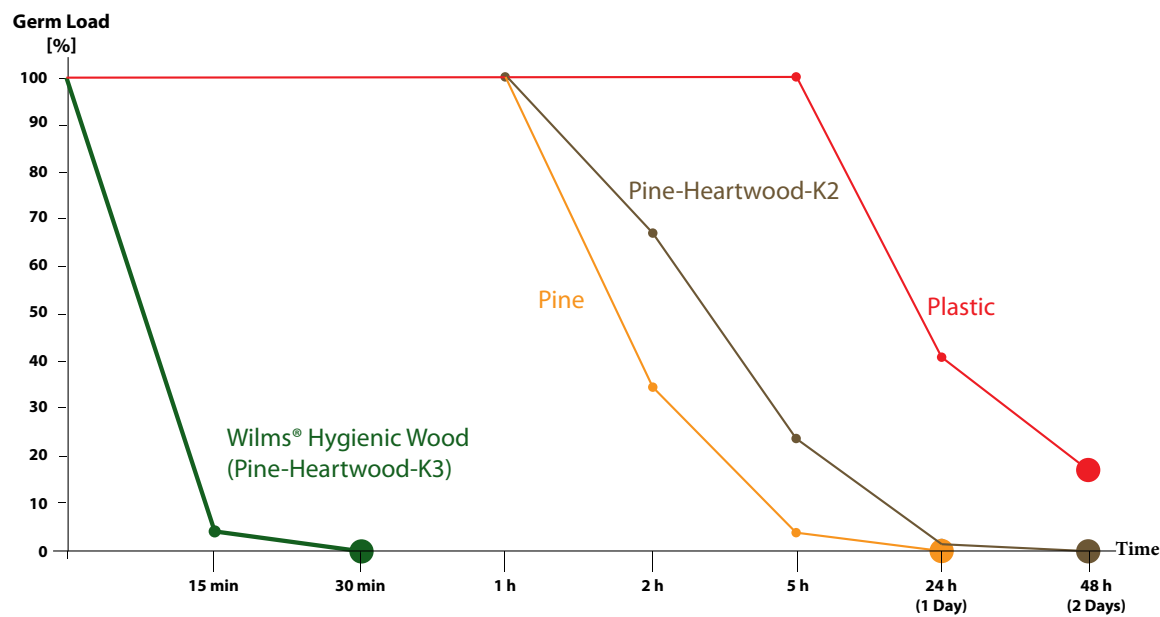


Objectives

Is it possible to increate the hygienic properties of pine heartwood?

Approach

Samples of pine heartwood were processed differently and then each 1x10⁶ cfu / cm² (total number of bacteria live per sq. cm) were infected E.coli bacterium. The development of bacterial populations was observed during a 48 hour period and is shown in the following diagram.



Germ load on Wilms® Hygienic Wood, Pine-Heartwood-K2, Pine und Plastic ⁴

Result

After a washing and drying procedure „K3“ the pine heartwood killed germs far faster than the other wood. This method improves the hygroscopic properties of the wood so that the wood is able to absorb liquids much faster. Test organisms that are located in the liquids are therefore more in contact with the contents of the wood. This patented procedure (EP-Nr. 1005964) is used for Wilms ® Hygienic Wood.

Conclusion

The Wilms® patented washing and drying procedure greatly improved the hygienic properties of pine heartwood.



Implementation

Annett Schönwälder,
Federal Biological Institute for Agriculture and Forestry,
Messeweg 11/12, 38104 Braunschweig, 2000.

⁴ Data: Schönwälder, Annett (2000), S. 51; Graphical composition: Fa. Wilms GmbH

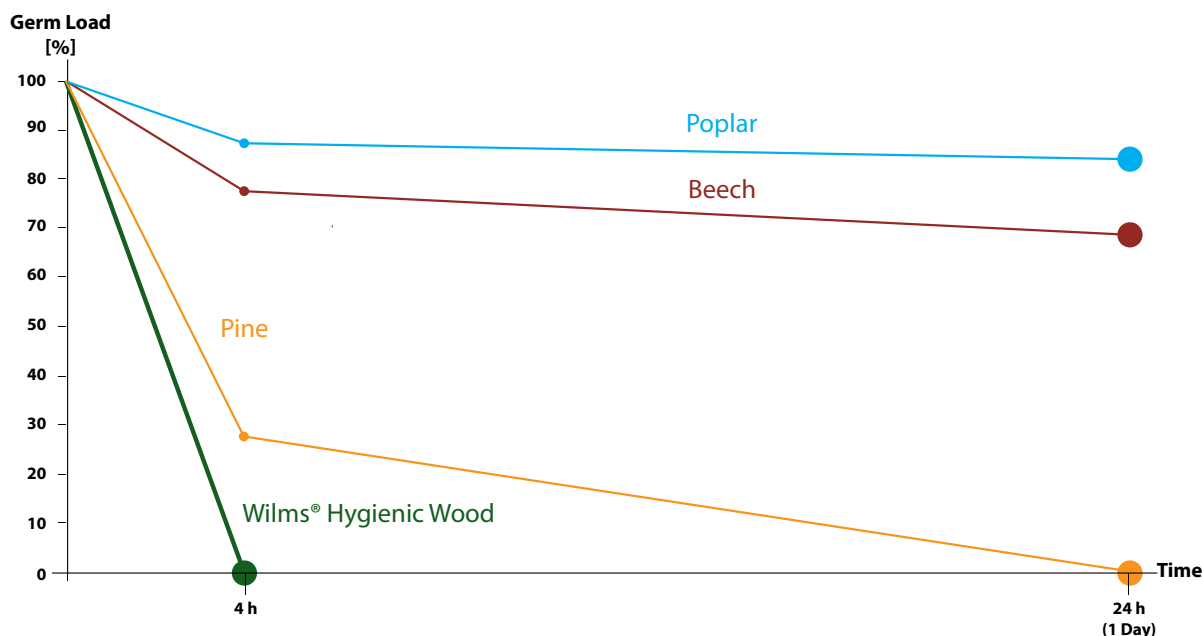


Objectives

Can germs live inside the wood or will they be reduced/eliminated?

Approach

The test materials were 1×10^6 cfu / cm² (total number of bacteria live per sq. cm) wood infected with the E.coli bacterium. The development of bacterial populations was tested 1mm deep after 4 and also 24 hours. The results are shown in the following diagram.



Germ load inside the wood⁵

Result

When tested after four hours, the Wilms® Hygienic Wood had no germs left.

Conclusion

Bacteria is soaked into the Wilms® Hygienic Wood, where it is actively fought and killed.



Implementation

Annett Schönwälder,
Federal Biological Institute for Agriculture and Forestry,
Messeweg 11/12, 38104 Braunschweig, 2000.

⁵ Data: Schönwälder, Annett (2001), S. 62; Graphical composition: Fa. Wilms GmbH



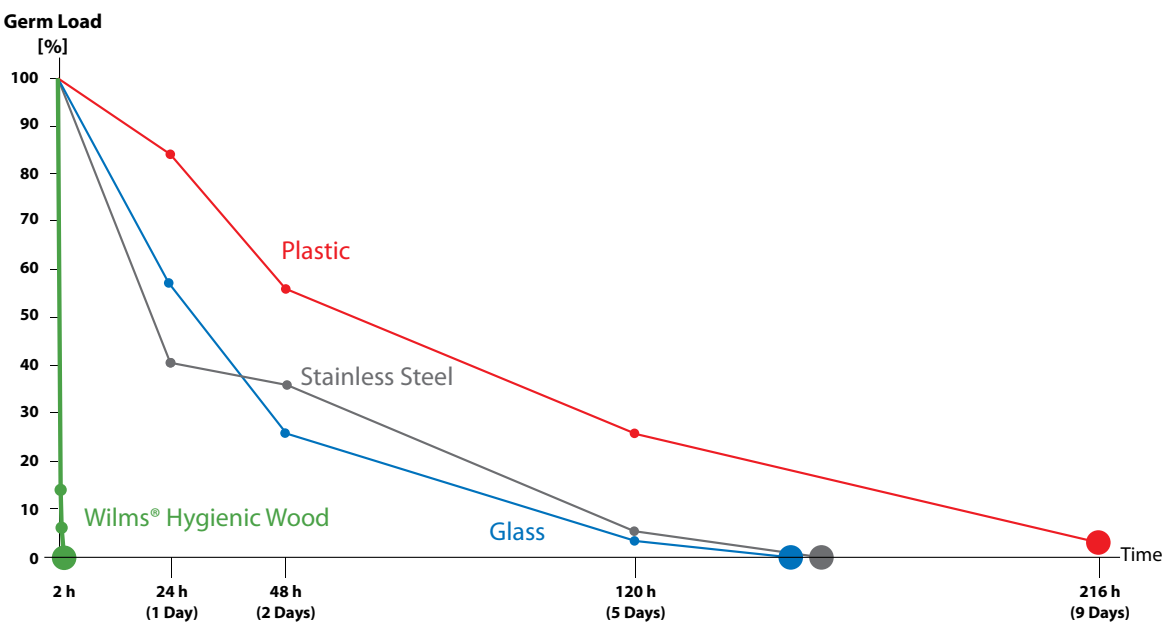
3.2.2 Germ reduction by Wilms® Hygienic Wood compared to other materials

Objectives

What are the antibacterial properties of Wilms® Hygienic Wood compared to other materials such as glass, stainless steel and plastic?

Approach

The test materials were each infected with 1x10⁶ cfu / cm² (total number of bacteria live per sq. cm) of the E.coli bacterium. The development of bacterial populations was over a period of nine days, and is seen in the following chart.



Germ load on Wilms® Hygienic Wood, glass, stainless steel and plastic ⁶

Result

Particularly significant is the rapid destruction (2 hours) of all micro-organisms by Wilms ® Hygienic Wood, while the other materials still had bacteria after 120 hours (polyethylene after 216 hours).

Conclusion

On Wilms® Hygienic Wood bacteria are reduced significantly faster than on glass, stainless steel and plastic.



Implementation

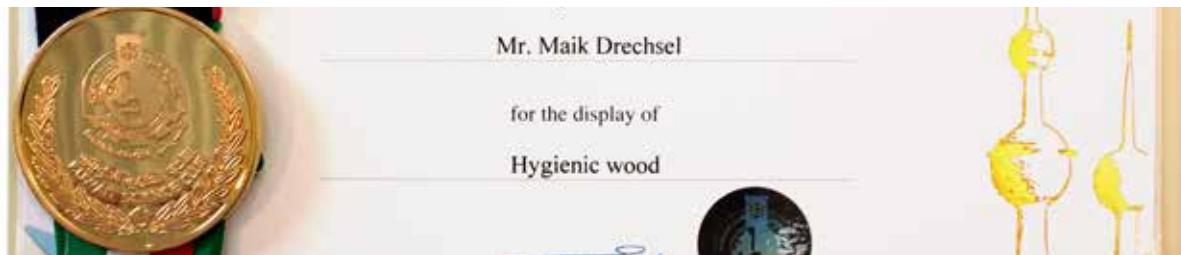
Annett Schönwälder,
Federal Biological Institute for Agriculture and Forestry,
Messeweg 11/12, 38104 Braunschweig, 2000.

⁶ Data: Schönwälder, Annett (2001), S. 66; Graphical composition: Fa. Wilms GmbH



3.3 International Awards

International Invention Fair of the Middle East in Kuwait 2010 - Gold Medal



Geneva Exhibition of Inventions 2008 - Two Gold and Two Silver Medals



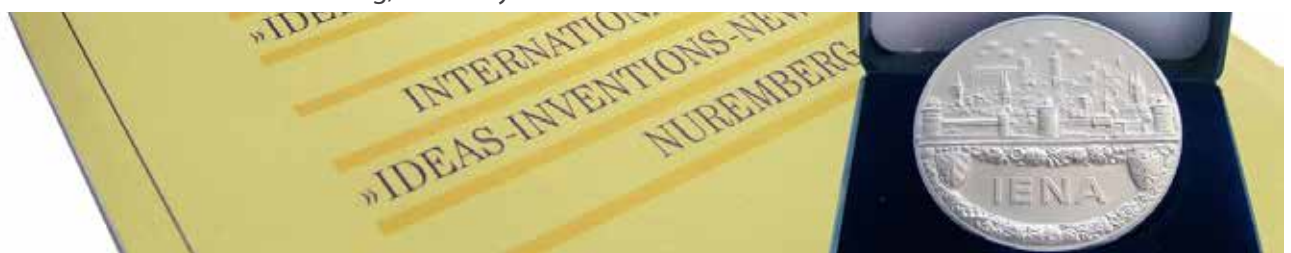
Exposition INPEX in Pittsburgh 2010 - Gold Medal



Geneva Exhibition of Inventions 2010 - Bronze Medal



Exhibition of Inventions in Nürnberg, Germany 2009 - Silver Medal



Exhibition of Inventions in Nürnberg, Germany 2010 - Showcase project



4. Customer reviews

Martin Schröder 13.04.2009 23:00:04

Dear Mr. Wilms,

A friend of mine suggested that I try your bed mat to relieve my mite allergy symptoms. I've been sleeping on it now for 5 months and am very satisfied. I will continue use the Wilms Bed Mat now on a permanent basis.

Markus Kaptain 30.03.2009 08:57:20

Dear Mr. Wilms

I have slept for several weeks now on your Bed Mat. In the first night already, I had noticed significant changes. My sleep was much deeper and my sinuses (irritated by allergies) were calmed. Also, I was able to significantly lower and quiet breath. The sleeping mat has me convinced.

Prof. Dipl.-Ing. H. B. Müller-Schwenn 05.03.2009 12:21:35

Dear Mr. Wilms!

After about 2 years of using your „hygienic products“ because of the effects of the natural pine heartwood, I would now like to report how they have worked in reference to the following products:

- 1.) Hygienic Mats as Bed and Bath Mats
- 2.) PineGold Nourishing Gel
- 3.) PineGold Natural Soap
- 4.) PineGold Liquid

With products 2), 3) and 4) the itching on my skin (hands, scalp, arms and legs) has been 90% removed;

Product 1) eliminated my Athlete's Foot and removed germs and bacteria from my bed, which I attribite to my now more restful sleep;

Product 4), when used in washing machine water gives clothes a nice feel which is noticeable during wear.

This could all be regarded as individual successes, but when looked at alongside the current sales figures and after inspection of the relevant laboratory reports and test results, I am convinced that Wilms Hygienic products will only have continued success in the future.

Yours sincerely,
Bernhard Müller-Schwenn

Gisela Tewes 15.10.2008 15:24:13

We are so happy with our Premium Bed Mats! We now sleep so wonderfully!

Sincerely, Gisela Tewes

Günter Berger 10.03.2008 10:14:55

Dear Mr. Rucho,

Thank you! My wife and I participated in the testing of the Wilms Hygienic Bed Mats. After three months of sleeping on one, I thought I'd share our experience.

The first night the Mat gave me a pleasant, cool feeling as the scent of pine wood soothed me. I felt right at home sleeping on my mat and would miss it now if I didn't have it.

After about 3 months of sleeping on the mat, my wife and I agree that we'll never sleep again without it. For the future, I wish you continued innovative ideas.

Until then I wish you health and success.



Lothar Bode 02.02.2008 15:14:37

Dear Mr. Wilms,

Since I've been sleeping on the Hygienic Wood Bed Mat, I don't toss and turn as much in my sleep. Also, the temperature is cooled in the summer months. I no longer sweat in bed.

I wish you much success with your environmentally friendly products.

Sincerely,
Lothar Bode

heike heewerth 05.01.2008 21:28:58

Hello Mr. Wilms,

Thank you for the Hygienic Wood Mats for our Qi Gong Yoga courses. All participants (Heike, Hildegard, Karen, Elizabeth, Rita, Almut, Inge, Hela, Manuela) were enthusiastic about the softer stance on the mats and the cool feeling it gave to their feet.

Sincerely yours,
Heike Heewerth

Ulrike Uhlemann 10.12.2007 07:24:02

Dear Mr. Wilms,

As I already mentioned in our conversation, I'd like to express how much I've enjoyed the Wilms Bed Mat. Without it, I feel there is something missing. In the summer months I particularly appreciate the temperature difference it provides. I find that it keeps me cool on those hot nights.

I wish you and your family a very Merry Christmas.

Sincerely,
Ulrike Uhlemann

H.B.Müller-Schwenn 08.11.2007 14:28:21

Dear Mr. Wilms!

I would like to thank you for the products that you sent to me. All three have served me well:

- Wilms Hygienic Bath Mat: my wife and I didn't have to worry about getting foot fungus while on vacation.
- Wilms Hygienic Wood Mat (Premium Mattress edition): my back pain is significantly lessened.
- PineGold (liquid): by regularly rubbing my shoulder with it, my rheumatic elbow pain has been reduced.

Sincerely,
Prof. Dipl.-Ing. H.B.Müller-Schwenn

Dirk Fronhoff 06.11.2007 16:54:33

Hello,

Despite initial skepticism, I can say the Wilms Bed Mat really works - my sleeping habits have improved remarkably. Many thanks! ■



5. The Wilms® Company

5.1 Our Mission



The goal of the Wilms® company is to improve your living environment in a natural way. We make the positive effects of nature available to you through ideas, development of new products and through continuous research.

5.2 Company Profile

The Wilms® Pine Wood Healthcare Company is an innovative german company under the brand PineGold. For more than ten years now, we have produced healthcare products on the base of pine heartwood. In this context, the main focus is to research the positive antibacterial effects of pine heartwood on our health. We are a recognized leader in the innovation, product development, research, design and manufacturing of healthcare products made of pine heartwood. Our products are exported worldwide - from Europe to the Middle East.



The Wilms company was created in 1893 as a private firm. Since that time, it has been passed down and still remains run by the Wilms family. The enterprise is an open commercial company under the leadership of Heinrich Wilms and Katharina Wilms. The Wilms company currently employs approximately 120 people at two locations. ■



5.3 Environmental Responsibility

Wilms® Hygienic Wood is committed to maintain a responsible attitude toward the environment.

We strive to protect natural resources and the environment - especially in the processing of natural raw materials such as wood. We are obliged to take care of nature to ensure a healthy environment for future generations and to make certain that we leave the natural habitat intact.

Therefore, we make every effort to make environmentally friendly decisions:

■ Wood from sustainable forestry

Wilms® uses the heartwood of pine trees that come from PEFC certified forests. We obtain wood from companies that operate under sustainable forest regulations. This means that they plant more trees than they cut down.



■ No tree is cut especially for Wilms® Hygienic Wood

We use the core of the wood that is leftover from wood veneer manufacturers since it can only be peeled into strips up to a certain diameter. This inner portion is round with a diameter of about 8cm. This is our valuable raw material. **No trees are cut down for our Hygienic Wood products.**



■ Efficient energy use

Our innovative production guarantee optimally utilizes energy - economically and above all environmentally friendly.

Wood - CO2 Neutral

Products made of wood lead to an important environmental advantage. The extraction and processing of wood requires significantly less energy than other materials. Everywhere wood products can replace those made of other materials that require high energy to be produced, the result is an ecological advantage - especially for example, our wooden cutting boards.

Material of the Future

Our Hygienic Wood is antibacterial and non-chemical. This is definitely the way of the future. With its diverse health-promoting properties, Hygienic Wood plays an important role in the field of natural health. ■



5.4 Contact

For more information, please contact us.

Katharina Wilms

Owner / CEO

Tel. +49 5427 / 9423- 25 Fax - 23

k.wilms@wilms.com

Sabine Eichberger

Marketing

Tel. +49 5427 / 9225 – 141 Fax -143

s.eichberger@wilms.com

Marion Zander

Production and Sales

Tel. +49 5427 / 9225 – 214 Fax - 213

m.zander@wilms.com

Our address is:

Wilms GmbH – HygieneHolz

Im Glanetal 6

49152 Bad Essen - Barkhausen

www.pine-healthcare.com

