



**REMOVES GERMS, PROTECTS
YOUR HEALTH**
INCREASE YOUR SAFETY WITH
BIOCIDAL TECHNOLOGY



Kets | MATTRESS®
TICKING

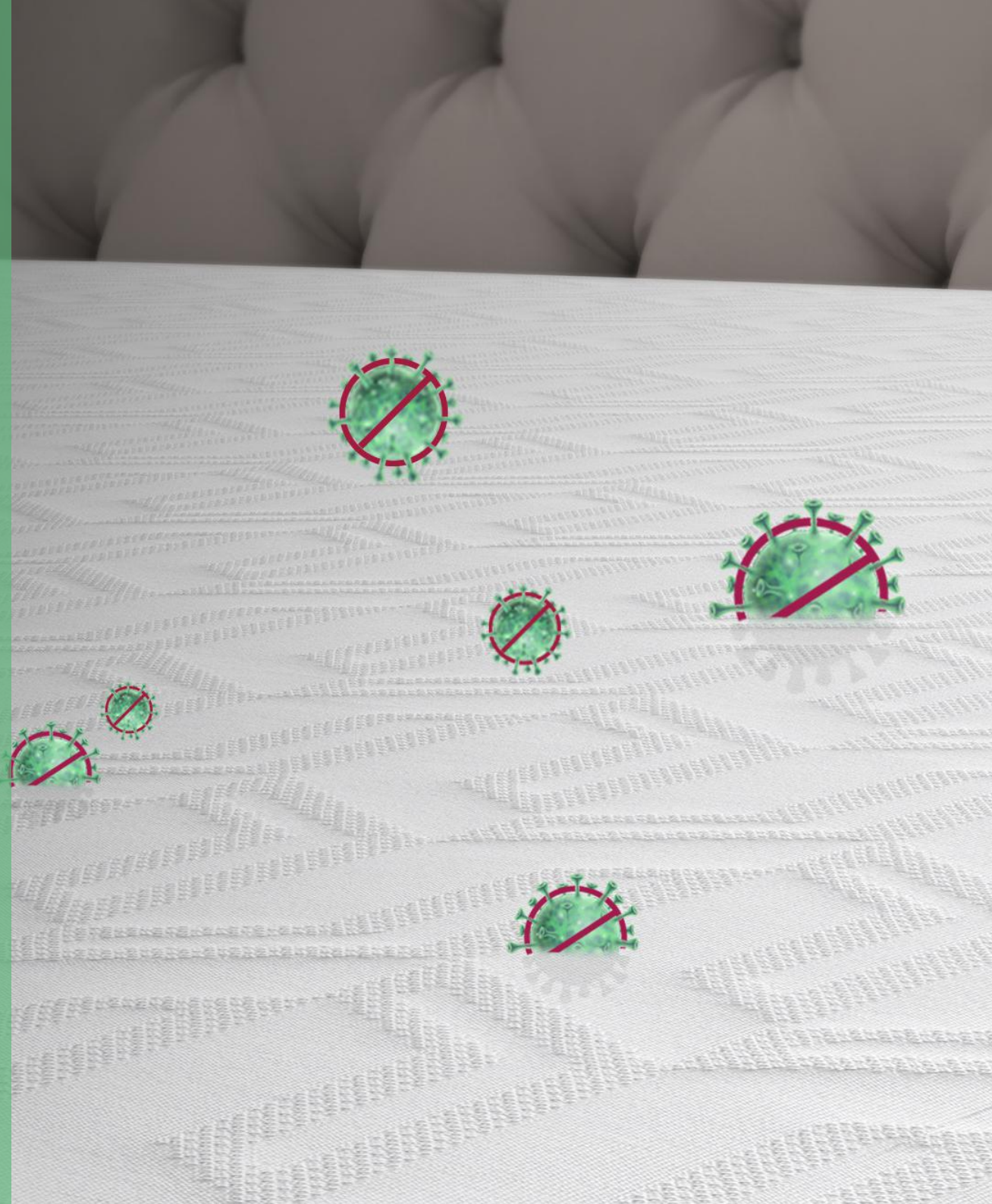
THE ART OF
Comfortable Sleep.

#Health&Hygiene / #AntiBacterial / #BioGuardian

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What is Biocidal Technology?

- Biocidal technology; It is the function of creating a controlling effect on any harmful micro-organism from a chemical or biological point of view or restricting its movement, removing, rendering it harmless and destroying it.
- Therefore, processed goods with a biocidal function are those that have at least one of the functions of having a controlling effect on any harmful organism from a chemical or biological point of view, or of restricting its movement, removing it, rendering it harmless, or destroying it. The purpose of this function is not to preserve the item itself or its original function, but to provide an additional biocidal function



How does BIOGUARDIAN Work?



**Immobilizes Bacteria
by Depleting Oxygen**



**Breaking The Bacterial
Cell Membrane Parts**



**Destroys The Reproduction
Receptor Of The Bacterial Cell**

**The Reproduction Of Silver Ions Is Minimal, And They Only Become Active When In Contact With Bacteria.
'On Demand Release'**

Which bacteria does BIOGUARDIAN work against?

Test Name: Time Kill Test By ASTM E 2315-03

- Escherichia coli ATCC 11229
- Bacillus subtilis ATCC 6633
- Staphylococcus aureus ATCC 6538
- Legionella pneumophila
- Enterobacter aerogenes ATCC 13048
- Salmonella typhi ATCC 10749
- Enterococcus faecalis ATCC 35029
- Pseudomonas aeruginosa ATCC 10145
- Meticilin Resistant Staphylococcus aureus MRSA-S 129
- Klebsiella pneumonia ATCC 4352
- Clostridium spp.
- Proteus vulgaris ATCC 13315
- Lactobacili casei ATCC 391
- Micrococcus lutea ATCC 9341
- Streptococcus faecalis ATCC 9790
- Aspergillus niger ATCC 6275
- Candia albicans ATCC 10231
- Saccharomyces cerevisiae ATCC 26602
- Penicillium funicolosum NCIM 1170
- Aurobasidium pullulans ATCC 15233



Test Results

Name of Test:

Determination of Antibacterial activity and efficacy of textile products by JIS L 1902: 2015 - **Quantitative Absorption Method**

ANTIBACTERIAL ACTIVITY

2. 1414-Protect AG T - 0 wash

Test Bacteria	Staphylococcus aureus			
Strain Number	ATCC 6538		ATCC 4352	
Concentration of inoculumus (cfu/ml)	1.80 x 10 ⁵		1.90 x 10 ⁵	
Difference of Extremes for three control specimens 1414-Untreated (log)(Condition<1)	immediately after inoculation	immediately after incubation	immediately after inoculation	immediately after incubation
	0.009	0.028	0.013	0.026
Difference of Extremes for three test specimens (Condition<1)	immediately after inoculation	immediately after incubation	immediately after inoculation	immediately after incubation
	0.013	0.088	0.012	0.054
Growth value of G (F=log C ₁ - log C ₀)	+1.486: (logC ₁ :+6.49, Log C ₀ +5.00)		+1,503: (logT ₁ :+6.51, Log T ₀ +5.01)	
Growth value of F (G=log T ₁ - log T ₀)	-0.979: (logT ₁ :+4.03, Log T ₀ +5.01)		-0.820: (logT ₁ :+4.20, Log T ₀ +5.01)	
Concentration of inoculumus (cfu/ml)	2.46 (99.65% bacterial reduction)		2.32 (99.50% bacterial reduction)	
Measuring Method	Plaint Count Method			
Type of Sample Material	Sky blue color knit fabric			
Sterilization Method	Autoclave			
Incubation Time	20 hrs.			



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