

Viruses have no place in
your living space thanks
to Kaleguard Defence!



Kaleguard
DEFENCE



 **Kalebodur**

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Defense Applied
Surface Technology

What is Kaleguard Defence Applied Surface?

Kalebodur products; which keep the spaces alive with functional products and inspire with unique ceramic collections; offer you and your loved ones a healthy life with **Kaleguard Defence**.

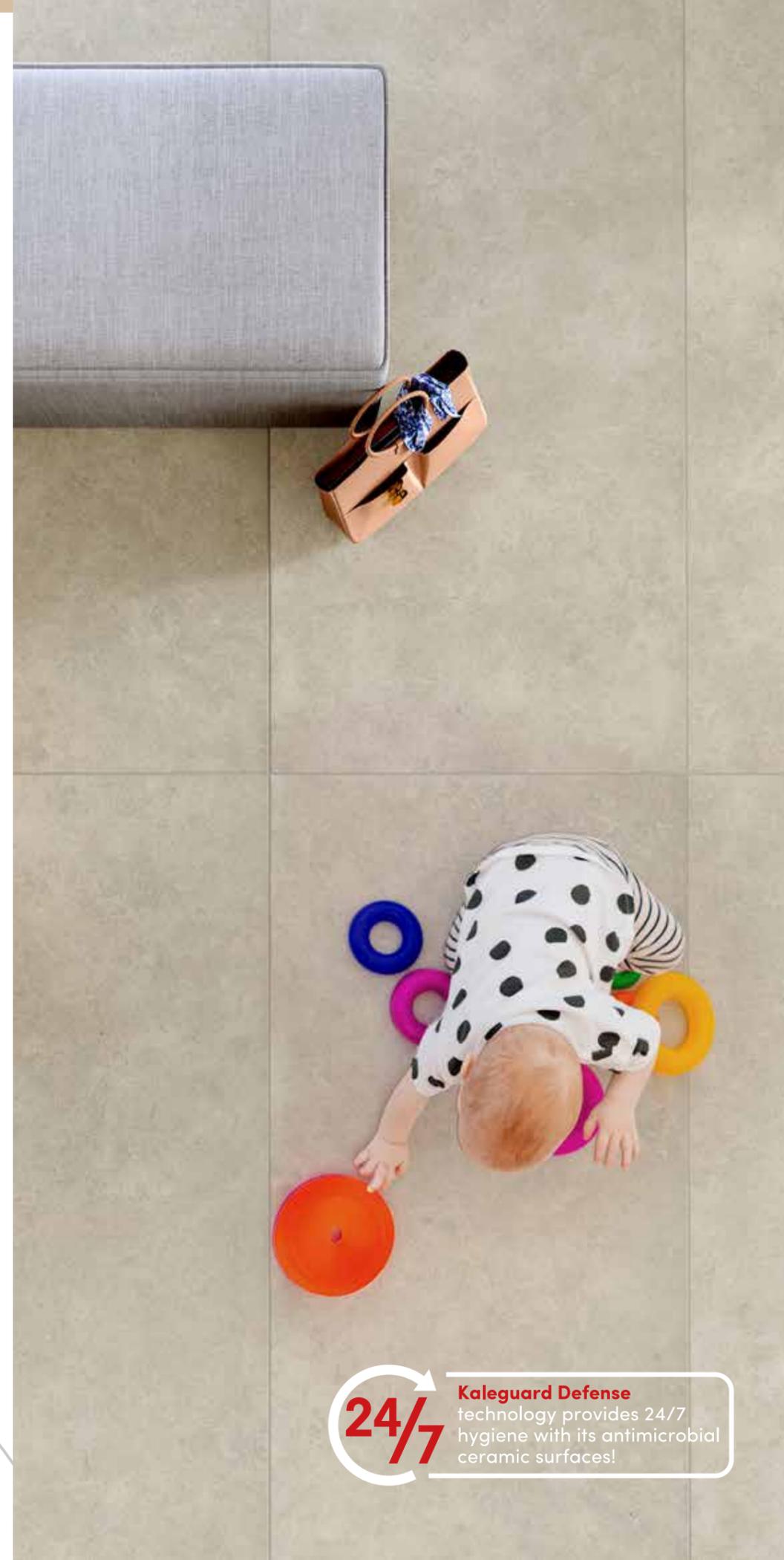
Kaleguard Defence applied ceramics, with **Nano Silver Ions** destroy many harmful viruses and bacteria, including **Covid-19**, keeping you safe from invisible dangers.



Standard Surface



Kaleguard Defence Applied Surface



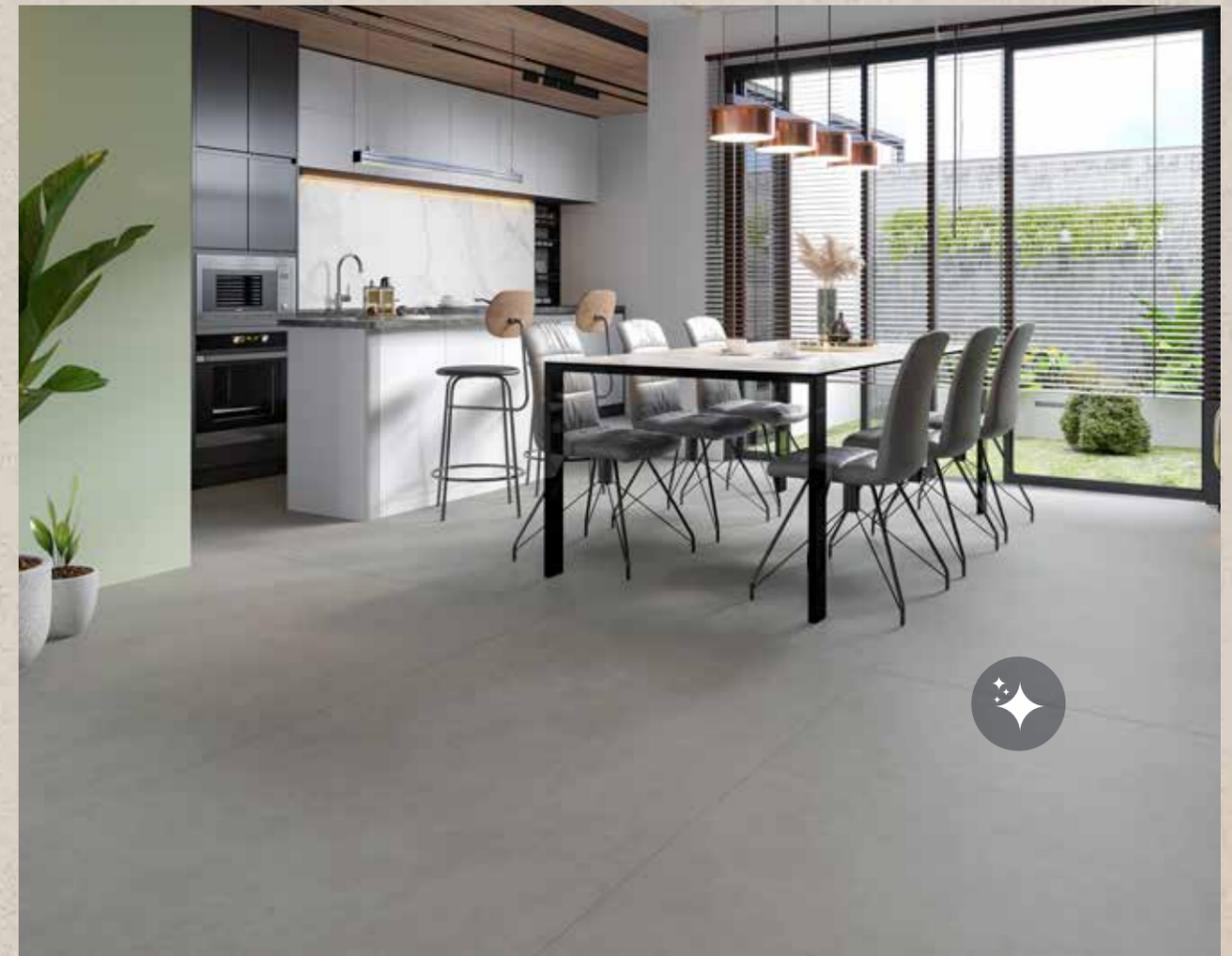
Kaleguard Defense technology provides 24/7 hygiene with its antimicrobial ceramic surfaces!

Hygiene Report of the Surfaces

Today, minimizing the negative effects of **viruses, bacteria and microbes** on human health is one of the subjects that experts work on most. Long-term survival on surfaces, the colonization by multiplying, and spreading from contaminated objects of these invisible microorganisms increase their characteristics that threaten human health. The applications made by users who want to stay safe, with chemical cleaning materials cause permanent damage to the human skin and burns in the lungs, as well as deforming the properties of the surfaces such as color, slipperiness and durability over time.



The Interaction of Germs with Surface



It has been reported that **Covid-19** virus can continue its activity for up to;

- **2-8 hours on aluminum surfaces,**
- **5 days on metal surfaces,**
- **4 days on wooden surfaces,**
- **4 days on glass,**
- **4-5 days on paper,**
- **9 days on plastic surfaces,**
- **6 days on dry surfaces in aerosol,**

at room temperature when no cleaning application is performed.*

Thus, Kalebodur embarks to increase the hygiene quality of the surfaces and designed the **Kaleguard Defence** product group, which offers a hygiene guarantee for up to 2 years against dangerous microorganisms.



Long-lived with
Kaleguard Defence



Long Time
Protection



Don't be afraid to touch thanks to Kaleguard Defence!

Designing healthy and hygienic living spaces for years with its superior quality, Kalebodur has developed a new technology that its effectiveness on bacteria and especially harmful viruses such as **Covid-19** has been confirmed by clinical tests.

Kaleguard Defence applied ceramics having the hygiene technology of the new age prevent the proliferation of invisible dangerous microorganisms, stop their development and provide a long-term hygiene. **Kaleguard Defence applied surfaces** do not allow bacteria, viruses, and germs to take hold, settle or proliferate.



Invisible Surface Application



Anti-microbial Protection



Efficiency On Covid-19 Has Been Tested



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[Don't be afraid to touch thanks to Kaleguard Defence!](#)

All surfaces where hygiene is important such as **kitchen, bathroom, living room, airport, hospital, school, hotel, swimming pool - SPA, gym and shopping mall** are among the potential uses of this product.

Thanks to its superior properties that protect your health, **Kaleguard Defence** applied surfaces maintain their excellent aesthetic and technical performances for a long time.



High Abrasion Resistance



Easy to Clean



How does it work?

Developed by Kalebodur, **Kaleguard Defense** applied surfaces;

- Damage the cell membrane of **bacteria and viruses** and deform them structurally,
- Stop the energy production by disrupting the protein chains in the structure of **microbes**,
- Activate active oxygen and cause oxidative degradation of microbes,
- Degrade the genetic material of pathogens, in other words their DNA, thus preventing them from reproducing by copying. themselves.



What Do Kaleguard Defence Applied Surfaces Provide?

Eliminating many harmful viruses and bacteria, including **Covid-19**, ceramics with antimicrobial surfaces protect against invisible hazards.

Kaleguard Defence applied surfaces create safe living spaces for you and your loved ones in the new world order. It allows to touch surfaces safely against invisible dangers.



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Features of Kaleguard Defense Applied Surface Technology



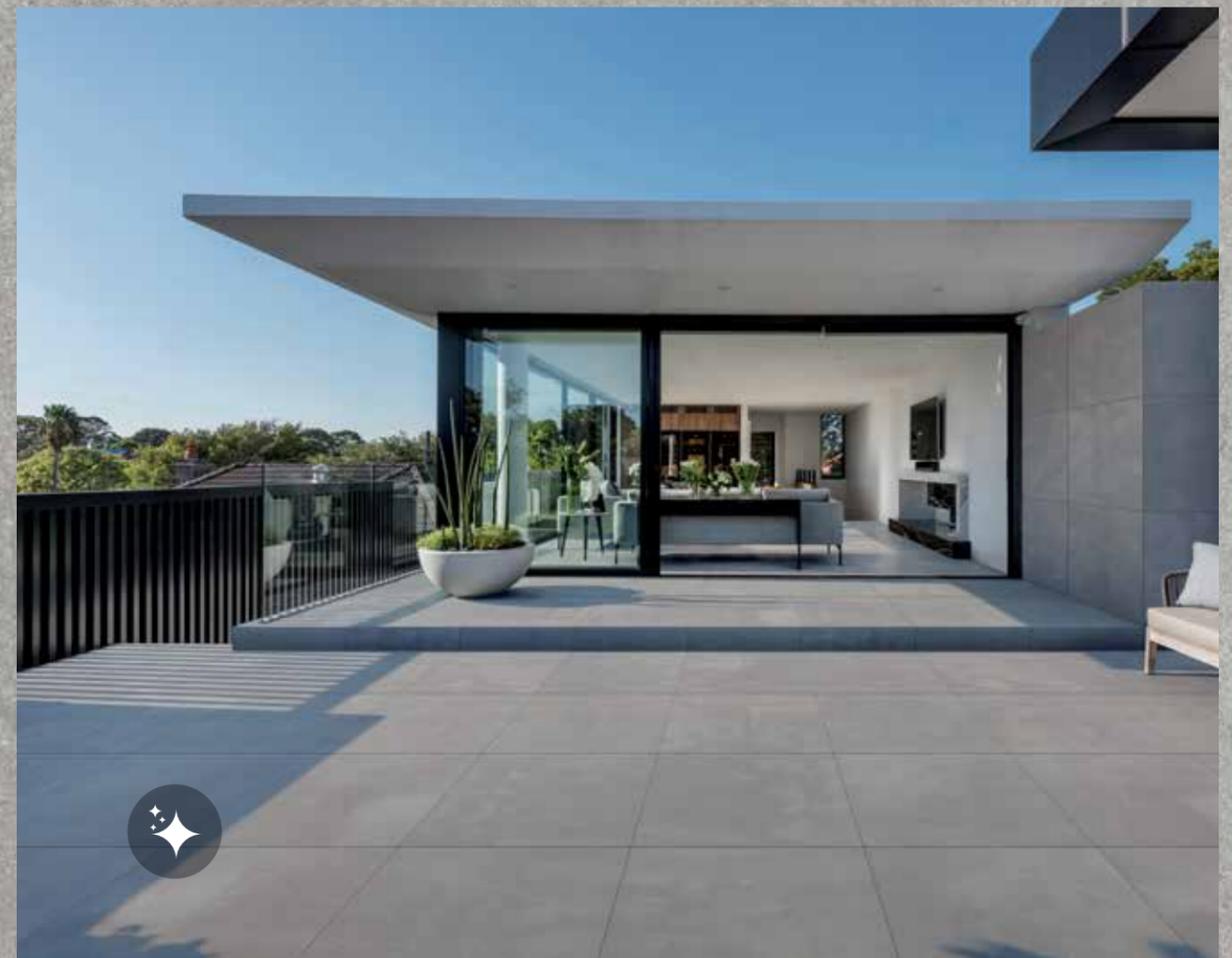
Kaleguard Defence Protection
Provides effective protection against viruses, germs and bacteria.



High Abrasion Resistance
It preserves its antimicrobial features for 2 years in wall and floor applications.



Environment-friendly
It has no harmful effect on the environment.





Invisible Surface Application

Since it can be applied very thin, the aesthetic properties of the product do not deform.



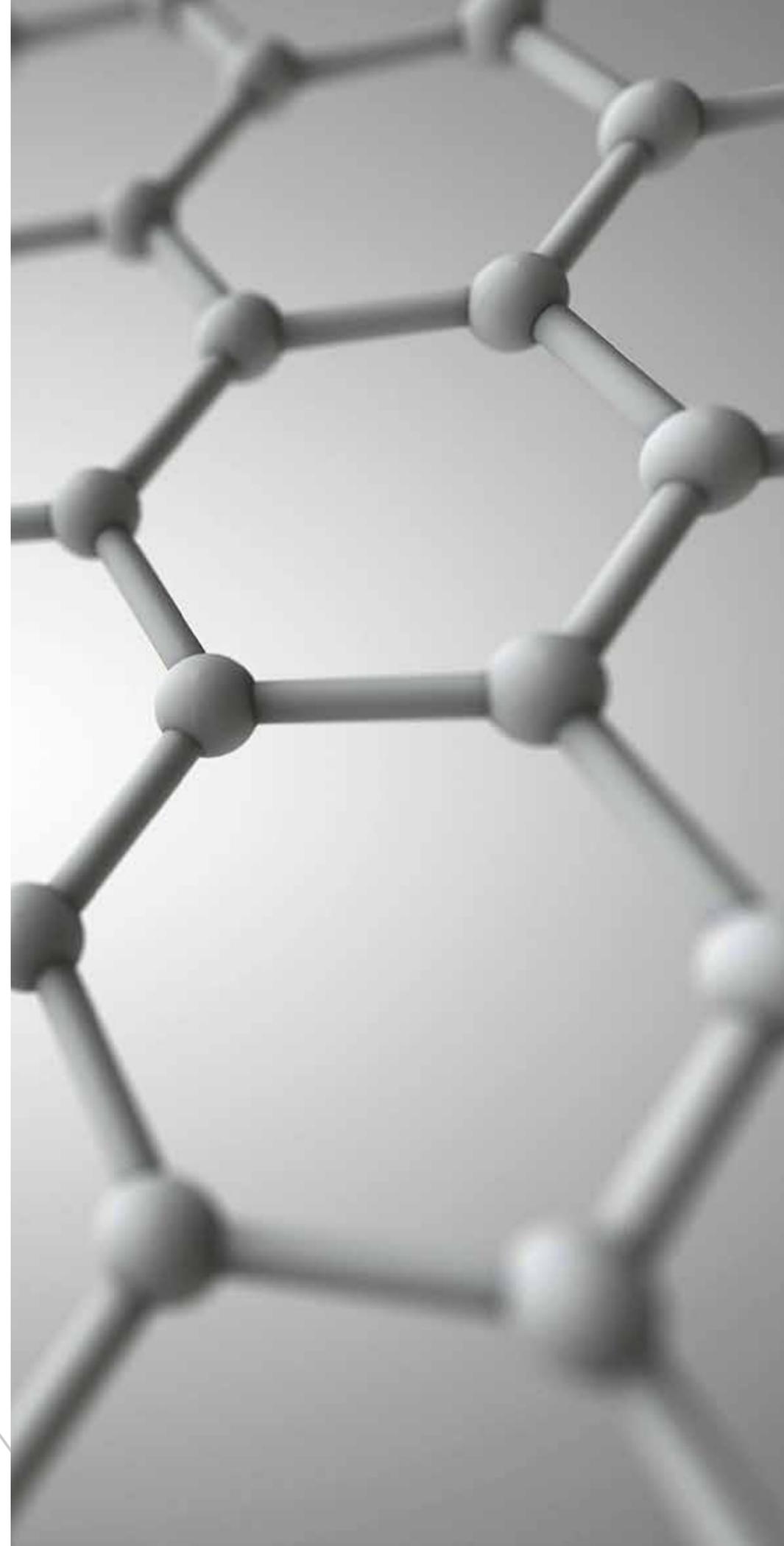
Easy to Clean

It has stain resistance. In this way, surfaces can be cleaned easily



Chemical Resistance

It has chemical resistance. It does not corrode due to cleaners.



Kale

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