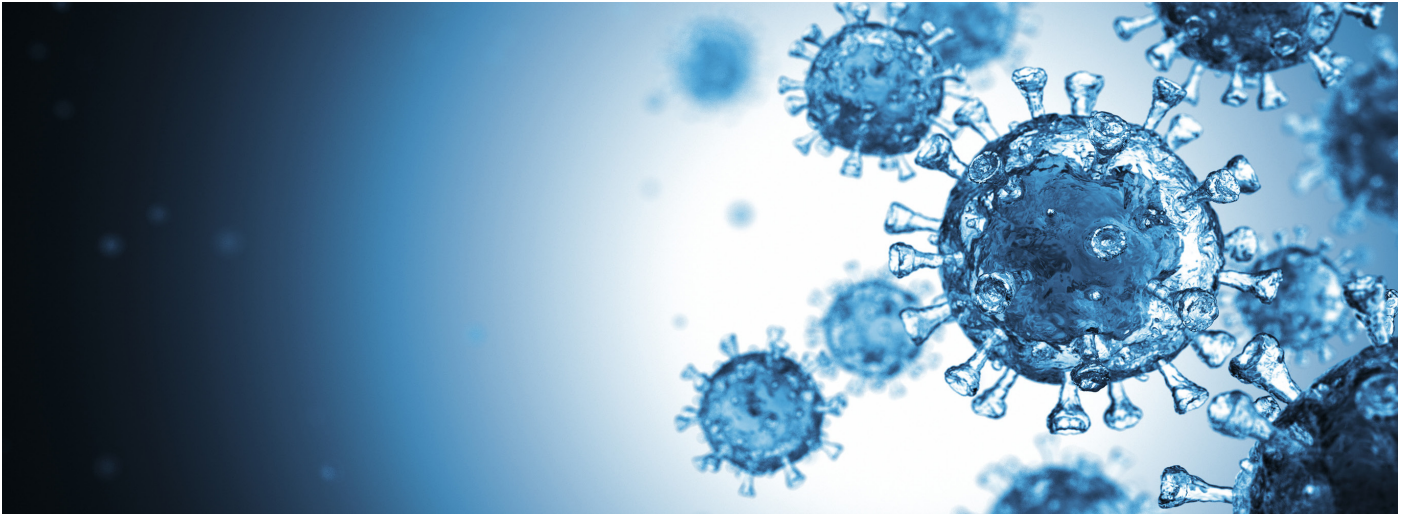


# Hygienic CeramicSteel

**Anti-microbial and designed to eliminate 99% of bacteria in 24 hrs**

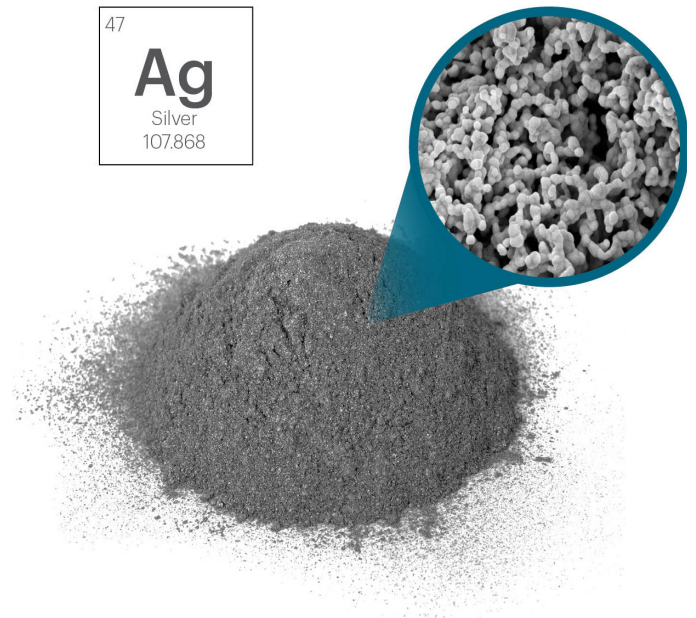
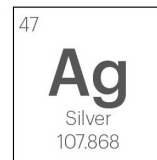


## Silver Ion Technology

Polyvision CeramicSteel has been bacteria-resistant since inception. Thanks to the smooth, non-porous and scratch resistant nature of the surface, there is nowhere for bacteria to hide.

The all new Hygienic surface takes CeramicSteel to the next level by incorporating an additive of silver micro particles which create an anti-microbial surface designed to keep the surface clean and free from bacteria. The surface is tested according to ISO 22196:2011 with results of 99% bacteria elimination within 24h.\*

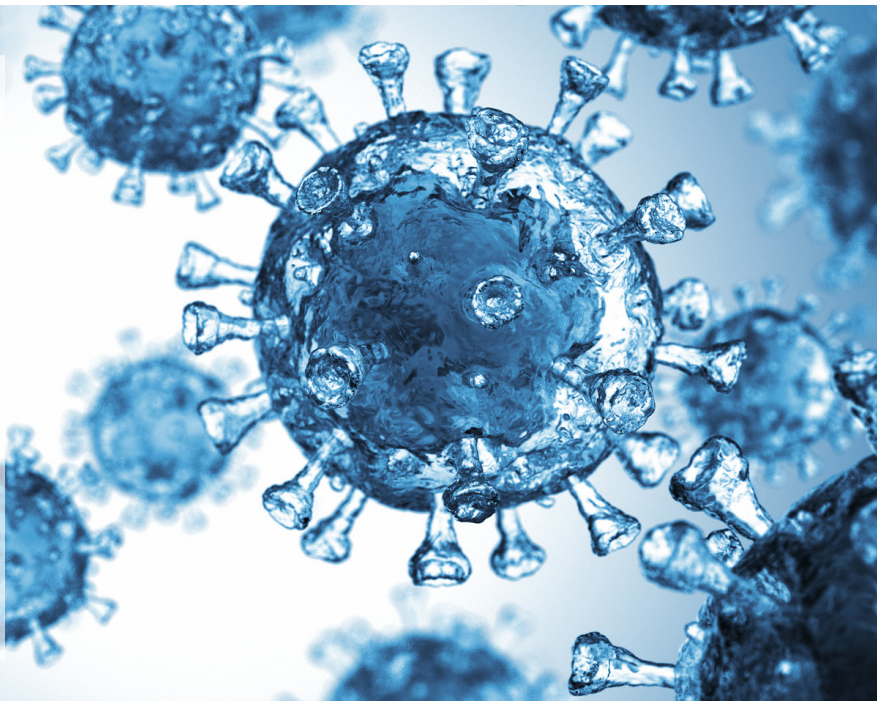
Since ancient times, Silver has been known to be effective against a broad range of microorganisms. These silver micro particles slowly release silver ions over time and will actively work to fight microbes for the lifetime of the product. This makes it ideal for use in demanding environments where cleanliness is vital.



# Silver Micro Particles

Recently, the manufacturer of the silver incorporated in Polyvision's CeramicSteel performed screening tests with certified labs in Germany, and concluded that various products containing the silver are effective against enveloped viruses.\*\*

The Hygienic CeramicSteel surface is anti-microbial and stays clean and sanitary making it an ideal application for a variety of public spaces such as schools, workplaces, airports, public restrooms, healthcare facilities and more.



## Features of Hygienic CeramicSteel

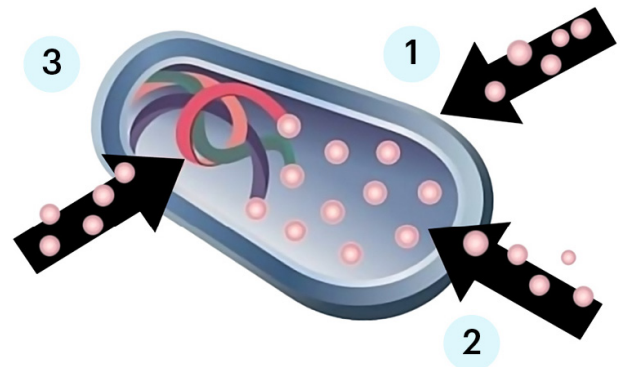
- Anti-microbial and eliminates 99% of bacteria in 24 hrs\*
- Odorless and colorless
- Scratch resistant
- Silver particles are safe and non-transferable from the surface
- Lifetime warranty on the surface
- Environmentally safe
- Inorganic, smooth, nonporous surface
- Standard and highly potent cleaning solutions used for disinfecting and sanitizing will not damage the surface or the silver micro particles

## Ideas for Use

- Whiteboards
- Mobile whiteboards
- Desk dividers
- Table tops
- Modular walls
- Architectural wall panels
- Clean room walls
- Elevator vestibules
- Public restrooms
- Food Processing areas
- Medical facility corridors
- Operating rooms
- Patient rooms

## How Silver Ions Work

1. Silver ions penetrate the cell wall
2. Inside the cell, silver ions disrupt the respiration of the cellular membrane
3. Silver ions attach to the DNA of the microbe, inhibiting reproduction



\*Polyvision Hygienic surfaces are anti-microbial and tested in accordance to ISO 22196-2011 by a 3rd party lab. Results showed more than 99% reduction of tested bacteria in 24 hours.

\*\*The family of enveloped viruses includes, for example, the current coronavirus (SARS-Cov-2), SARS (SARS-Cov), MERS (MERS-CoV) and Influenza A.

This document is intended for Polyvision customers in our EMEA Region and may not be applicable to other country certifications and regulations related to anti-microbial properties.

# Hygienic CeramicSteel Writing Surface Specifications in Low Gloss

Hygienic CeramicSteel is magnetic and available in additional gloss levels upon request.

Property	Ref. in Doc. n° 41.822	Specification	Whiteboard e <sup>3</sup> U Hygienic
Antibacterial activity	-	EN-ISO 22196:2011	Log 2 (99%) reduction
Total thickness enamel top coatings	1	ISO 2178 / ASTM B499	85 - 120 µm / 3.35 - 4.72 mills
Steel thickness	2		0.33 - 0.48 mm
Thickness back-side enamel coating	3	ISO 2178 / ASTM B499	Type B: 35 - 50 µm / 1.38 - 1.97 mills
Total thickness	4		0.46 - 0.66 mm
Available standard widths	5		999 mm - 1219 mm
Available standard colors	6		6100 White
Weight (typical)	7		2.9 - 4.1kg/m <sup>2</sup>
Color deviation from standard	8	ISO 7724 / ASTM D2244-02	ΔE <sup>94</sup> = 1.5 max.
Gloss	9	ISO 2813 / ASTM D523 60° ISO 2813 / ASTM D523 20°	(Indicative: 70 GU) 25 (+10/-5) GU
Mohs surface hardness	11	EN 15771	Min. 5
Scratch resistance	12	ISO 15695	Min. 7 N
Pencil hardness	13	ASTM D-3363	> 9H
Wear resistance	14	ASTM C 501 (Abrasive S 33/1 kg/1000 revs.)	Max. 0.1 g
Impact resistance	15	ISO 4532 (20N - 24h)	< 2 mm
Cold acid resistance	16	EN 14483-1-9 / ISO 28706-1-9	Min. A
Solvent resistance	17	PVNV 41.822	No change
Fire resistance	18	EN 13501-1 +A1	Incombustible - Class A1
Color stability	19	ASTM C 538	ΔE <sup>94</sup> ≤ 5
Dry-erasability of drymarkers	24	PVNV 41.803	Good (ΔE <sup>94</sup> ≤ 4.5)
Erasability of water-based markers with water	25	PVNV 41.822	Excellent (ΔE <sup>94</sup> ≤ 1.5)
Erasability of permanent markers with alcohol	26	PVNV 41.822	Excellent (ΔE <sup>94</sup> ≤ 1.5)
Durability	27	PVNV 41.809	RG<30%
Erasability of an aged surface	28	PVNV 41.809	Good (ΔE <sup>94</sup> ≤ 4.5)
EN ISO 28762	29	EN ISO 28762	Fulfilled
European Enamel Authority	30	EEA Quality Requirements	EEA 7.17: Fulfilled
MBDC Cradle to Cradle Certified	31	Cradle to Cradle Bronze	Certified
PEI 1002 compliant	32	PEI 1002	Fulfilled
ISO 9001, ISO 14001 compliant	33	ISO 9001	Certified

## SURFACEMATTERS™

©2024 Polyvision Corporation. All rights reserved. Trademarks used herein are the property of Polyvision Corporation or of their respective owner. Polyvision Corporation reserves the right to make changes in product design, construction or detail, and to discontinue any product or material without notice.

