

Porcelain Writing Surface in Ultra High Gloss

The all new Hygienic surface takes a porcelain writing surface to the next level by incorporating an additivie of silver micro particles designed to keep the surface clean. Hygienic Porcelain is magnetic and available in additional products upon request.

Antiviral activity - ISO 21702-2019 - Log 3 (99.9%) reduction Total thickness enamel top coatings 1 ISO 2178 / ASTM B499 - 86 - 120 μm / 3.35 - 4.72 mills Steel thickness 2	Property	Ref. in Doc. n° 41.822	Specification	Whiteboard e³U Hygienic
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 0.33 - 0.48 mm Thickness back-side enamel coating 3 ISO 2178 / ASTM B499 Type B: 35 - 50 μm / 138 - 197 mills Total thickness 4 0.46 - 0.66 mm 0.46 - 0.66 mm Available standard widths 5 999 mm - 1219 mm Available standard colors 6 6100 White Weight (typical) 7 29 - 4.1 kg/m² Color deviation from standard 8 ISO 77724 / ASTM D2244-02 ΔE ⁵⁴ = 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 GU) ISO 2813 / ASTM D523 20° 70 (+10/-5) GU Mohs surface hardness 11 EN 15771 Min. 5 Scratch resistance 12 ISO 16695 Min. 7 N Pencil hardness 13 ASTM D-3363 > 9H Wear resistance 14 ASTM C 501 (Abrasive S 33/1 kg/n000 revs.) Max. 0.1 g Impact resistance 15 ISO 4532 (20N - 24h) < 2 mm	Antibacterial activity	2	EN-ISO 22196:2011	Log 2 (99%) reduction
Steel thickness 2 0.33 - 0.48 mm Thickness back-side enamel coating 3 ISO 2178 / ASTM B499 Type B: 35 - 50 μm / 138 - 197 mills Total thickness 4 0.46 - 0.66 mm 0.46 - 0.66 mm Available standard widths 5 99 mm - 1219 mm Available standard colors 6 6100 White Weight (typical) 7 2.9 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D523 60° (Indicative: 92 GU) Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 GU) ISO 2813 / ASTM D523 20° 70 (+10/-5) GU Mohs surface hardness 11 EN 15771 Min. 5 Scratch resistance 12 ISO 15695 Min. 7 N Pencil hardness 13 ASTM D 53063 > 9H Wear resistance 14 ASTM C 501 (Abrasive S 33/1 kg/1000 revs.) Max. 0.1 g Impact resistance 15 ISO 4532 (200 - 24h) < 2 mm	Antiviral activity	-	ISO 21702:2019	Log 3 (99.9%) reduction
Thickness back-side enamel coating 3 ISO 2178 / ASTM B499 Type B: 35 - 50 μm / 138 - 197 mills Total thickness 4 0.46 - 0.66 mm Available standard widths 5 999 mm - 1219 mm Available standard colors 6 6 6100 White Weight (typical) 7 2.9 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔΕ ^{M =} 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 GU) ISO 2813 / ASTM D523 20° 70 (+10/-5) GU Mohs surface hardness 11 EN 15771 Min. 5 Soratch resistance 12 ISO 15695 Min. 7 N Pencil hardness 13 ASTM D-3363 > 9H Wear resistance 14 ASTM C501 (Abrasive S 33/1 kg/1000 revs.) Max. Q1 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 41822 No change Fire resistance 18 EN 13501-1 +A1 Incombustible - Class A1 Color stability 19 ASTM C 538 ΔΕ ^{M +} 5 Dry-erasability of drymarkers 24 PVNV 41803 Excellent (ΔΕ ^{M +} 1.5) Erasability of drymarkers Erasability of drymarkers with water 25 PVNV 41822 Excellent (ΔΕ ^{M +} 1.5) Erasability of permanent markers with alcohol 26 PVNV 41809 R-30% Erasability of an aged surface 28 PVNV 41809 Excellent (ΔΕ ^{M +} 1.5) Erasability of an aged surface 28 PVNV 41809 Excellent (ΔΕ ^{M +} 1.5) EN ISO 28762 European Enamel Authority 30 EEA Quality Requirements EEA 717. Fulfilled MBDC Cradle to Cradle Certified MBDC Cradle to Cradle Decretified MBDC Cradle to Cradle Decretified MBDC Cradle to Cradle Decretified MBDC Cradle to Cradle Decretified	Total thickness enamel top coatings	1	ISO 2178 / ASTM B499	85 - 120 μm / 3.35 - 4.72 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 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔΕ ^M = 1.5 max. Gloss 9 ISO 2813 / ASTM D22340° (Indicative: 92 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	Steel thickness	2		0.33 - 0.48 mm
Available standard widths 5 999 mm - 1219 mm Available standard colors 6 6 6100 White Weight (typical) 7 2.9 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔΕ™ = 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 GU) 70 (+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 ΔΕ™≤ 5 Erasability of drymarkers 24 PVNV 41.803 Excellent (ΔΕ™≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔΕ™≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔΕ™≤ 1.5) Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔΕ™≤ 1.5) Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔΕ™≤ 1.5) Erasability of cradle Certified 31 Cradle to Cradle Bronze Certified MBDC Cradle to Cradle Certified 51 Fulfilled	Thickness back-side enamel coating	3	ISO 2178 / ASTM B499	Type B: 35 - 50 µm / 1.38 - 1.97 mills
Available standard colors 6 6100 White Weight (typical) 7 2.9 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔE ^M = 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative; 92 GU) TO (+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	Total thickness	4		0.46 - 0.66 mm
Weight (typical) 7 2.9 - 4.1 kg/m² Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔE ^M = 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 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	Available standard widths	5		999 mm - 1219 mm
Color deviation from standard 8 ISO 7724 / ASTM D2244-02 ΔΕ SM = 1.5 max. Gloss 9 ISO 2813 / ASTM D523 60° (Indicative: 92 GU) 70 (+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	Available standard colors	6		6100 White
Solvent resistance 12 SO 2813 / ASTM D523 20° (Indicative: 92 GU)	Weight (typical)	7		2.9 - 4.1 kg/m²
ISO 2813 / ASTM D523 20° 70 (+10/-5) GU	Color deviation from standard	8	ISO 7724 / ASTM D2244-02	$\Delta E^{94} = 1.5 \text{ max.}$
Scratch resistance 12 ISO 15695 Min. 7 N	Gloss	9		
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	Mohs surface hardness	11	EN 15771	Min. 5
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	Scratch resistance	12	ISO 15695	Min. 7 N
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 ⁵⁴ ≤ 5 Dry-erasability of drymarkers 24 PVNV 41.803 Excellent (ΔE ⁵⁴ ≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔE ⁵⁴ ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔE ⁵⁴ ≤ 1.5) Durability 27 PVNV 41.809 RG<30%	Pencil hardness	13	ASTM D-3363	> 9H
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 ΔΕ ⁹⁴ ≤ 5 Dry-erasability of drymarkers 24 PVNV 41.803 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Durability 27 PVNV 41.809 RG<30%	Wear resistance	14	ASTM C 501 (Abrasive S 33/1 kg/1000 revs.)	Max. 0.1 g
Fire resistance 17 PVNV 41.822 No change	Impact resistance	15	ISO 4532 (20N - 24h)	< 2 mm
Fire resistance 18 EN 13501-1+A1 Incombustible - Class A1 Color stability 19 ASTM C 538 ΔΕ ⁹⁴ ≤ 5 Dry-erasability of drymarkers 24 PVNV 41.803 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔΕ ⁹⁴ ≤ 1.5) Durability 27 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔΕ ⁹⁴ ≤ 1.5) EN ISO 28762 EN ISO 28762 Fulfilled ELA Quality Requirements EEA 7.17: Fulfilled MBDC Cradle to Cradle Certified 31 Cradle to Cradle Bronze PEI 1002 compliant	Cold acid resistance	16	EN 14483-1-9 / ISO 28706-1-9	Min. A
Color stability 19 ASTM C 538 ΔE ⁹⁴ ≤ 5 Dry-erasability of drymarkers 24 PVNV 41.803 Excellent (ΔE ⁹⁴ ≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔE ⁹⁴ ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔE ⁹⁴ ≤ 1.5) Durability 27 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔE ⁹⁴ ≤ 1.5) EN ISO 28762 EN ISO 28762 EN ISO 28762 EN ISO 28762 EA Quality Requirements EEA 7.17: Fulfilled MBDC Cradle to Cradle Certified 31 Cradle to Cradle Bronze PEI 1002 compliant 32 PEI 1002 Fulfilled	Solvent resistance	17	PVNV 41.822	No change
Dry-erasability of drymarkers 24 PVNV 41.803 Excellent (ΔΕ SM ≤ 1.5) Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔΕ SM ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔΕ SM ≤ 1.5) Durability 27 PVNV 41.809 RG<30%	Fire resistance	18	EN 13501-1 +A1	Incombustible - Class A1
Erasability of water-based markers with water 25 PVNV 41.822 Excellent (ΔE ^{S4} ≤ 1.5) Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔE ^{S4} ≤ 1.5) Durability 27 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔE ^{S4} ≤ 1.5) 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	Color stability	19	ASTM C 538	Δ E ⁹⁴ ≤ 5
Erasability of permanent markers with alcohol 26 PVNV 41.822 Excellent (ΔE ⁸⁴ ≤ 1.5) Durability 27 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔE ⁹⁴ ≤ 1.5) 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	Dry-erasability of drymarkers	24	PVNV 41.803	Excellent (∆E ⁹⁴ ≤ 1.5)
Durability 27 PVNV 41.809 RG<30% Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔE ^{S4} ≤ 1.5) 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	Erasability of water-based markers with water	25	PVNV 41.822	Excellent (∆E ⁹⁴ ≤ 1.5)
Erasability of an aged surface 28 PVNV 41.809 Excellent (ΔΕ ^{B4} ≤ 1.5) 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	Erasability of permanent markers with alcohol	26	PVNV 41.822	Excellent (∆E ⁹⁴ ≤ 1.5)
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 PEI 1002 compliant 32 PEI 1002 Fulfilled	Durability	27	PVNV 41.809	RG<30%
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	Erasability of an aged surface	28	PVNV 41.809	Excellent (∆E ⁹⁴ ≤ 1.5)
MBDC Cradle to Cradle Certified 31 Cradle to Cradle Bronze Certified PEI 1002 compliant 32 PEI 1002 Fulfilled	EN ISO 28762	29	EN ISO 28762	Fulfilled
PEI 1002 compliant 32 PEI 1002 Fulfilled	European Enamel Authority	30	EEA Quality Requirements	EEA 7.17: Fulfilled
	MBDC Cradle to Cradle Certified	31	Cradle to Cradle Bronze	Certified
ISO 9001, ISO 14001 compliant 33 ISO 9001 Certified	PEI 1002 compliant	32	PEI 1002	Fulfilled
	ISO 9001, ISO 14001 compliant	33	ISO 9001	Certified