

Dated: 10th September, 2022

TO WHOM IT MAY CONCERN

Sub: Quartz Technical Specifications

DESCRIPTIONS		ARTIFICIAL QUARTZ STONE			
INGREDIENT					
NAME	FULL NAME	CHEMICAL FORMULA	CAS NO.	PERCENTAGE	
QUARTZ GRITS	Silicon dioxide	SiO ₂	7631-86-9	86-92%	
RESIN	Unsaturated polyester resin	(C ₈ H ₄ O ₃ .C ₄ H ₁₀ O ₃ .C ₄ H ₂ O ₃) _x	26123-45-5	7-13%	
HARDENING AGENT	Tert-Butylperoxy-2-Ethylhecanoate	C ₁₂ H ₂₄ O ₃	3006-82-4	0.07-0.13%	
COUPLING AGENT	Silane coupler- KH570	C ₁₀ H ₂₂ O ₄ Si	2530-85-0	0.07-0.13%	
PIGMENT	Iron(III) oxide	Fe ₂ O ₃	1309-37-1	0.05-0.15%	
TECHNICAL SPECIFICATIONS					
TEST ITEMS	TEST STANDARD	TEST RESULTS			
APPARENT DENSITY	EN14617-1:2005	2360kg/m ³			
WATER ABSORPTION	EN14617-1:2005	0.02%			
FLEXURAL STRENGTH	EN14617-2:2008	44.8Mpa			
SLIP RESISTANCE(POLISHED)	EN14231:2003	SRV ^{"dry"} :55 SRV ^{"Wet"} :12			
ABRASION RESISTANCE	EN14617-4:2005	20.6 mm			
THERMAL SHOCK RESISTANCE	EN14617-6:2005	Mass loss:0.03% Flexural strength loss: 2.9%			
IMPACT RESISTANCE	EN14617-9:2005	4.89J			
CHEMICAL RESISTANCE	EN14617-10:2005	Classification:C4			
LINEAR THERMAL EXPANSION COEFFICIENT	EN14617-11:2005	19.80 10 ⁻⁶ /°C			
MOH'S HARDNESS	EN101	7			
RESISTANCE TO CHEMICALS AND STAINING AGENTS	EN14688, CLAUSE 5.5	STAINING AGENT	CLEANING TEST		
		CH ₃ COOH(10%V/V)	REMOVAL		
		NaOH(5% m/m)	REMOVAL		
		C ₂ H ₅ OH(70% V/V)	REMOVAL		
		NaOCl(5%)	REMOVAL		
		METHYLENE BLUE(1% m/m)	REMOVAL		
		NaCl(170G/L)	REMOVAL		

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