

✦ COLORYZE-ARCTIC WHITE, THE MOST AESTHETIC ALUMINA TOUGHENED ZIRCONIA

Thanks to the coupling of Zirconia and Alumina, ColorYZe-Arctic White offers enhanced mechanical performances. The pure whiteness of this composite material gives outstanding aesthetic properties to the final ceramic.

ColorYZe-Arctic White is proposed either as a dry powder (ColorYZe-Arctic White), or as ready-to-press granules (ColorYZe-Arctic White -G).

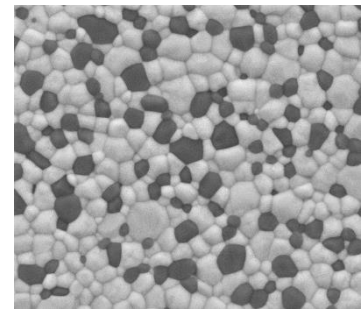
🔍 TYPICAL PARTICLE SIZE & SPECIFIC SURFACE AREA

	Particle size ^a (µm) D50	Granules size ^a (µm) D50	Specific Surface Area ^b (m ² /g)
ColorYZe-Arctic White	0.2	/	7
ColorYZe-Arctic White -G	0.2	60	7

^a : Laser diffraction - ^b : B.E.T. measurement

⚙️ MAIN APPLICATIONS

- High performance decorative ceramic (watch parts, jewelry, automotive interior, ...)



🔬 TYPICAL CHEMICAL ANALYSIS

	Chemistry ^a (wt%)						L.O.I. ^b (wt%)
	Y ₂ O ₃	Pigment	Al ₂ O ₃	SiO ₂	Na ₂ O	TiO ₂	
ColorYZe-Arctic White	4.4	0	20.0	<0.02	<0.02	<0.005	≤1.0
ColorYZe-Arctic White -G							2.5 - 4.5

^a : XRF for Y₂O₃, Al₂O₃, ICP for the other elements ; ^b : Loss weight 20°C to 1000°C

🔍 CERAMIC PROPERTIES

	Density ^a	Fracture toughness K _{IC} ^b (MPa.m ^{0.5})	Bending strength ^c (Mpa)	Hardness ^d (HV05)
ColorYZe-Arctic White ColorYZe-Arctic White -G	≥ 5.5	6	>1000	1400

^a : 1525°C for 2hrs in air ; ^b : DCM (ISO 14627) ; ^c : 3 points bending (NF EN843-1) ; ^d : Vickers indentation (ISO 6507)

📦 PACKAGING

- 25kg plastic drum

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