



STARCERAM®Z

H.C.Starck Ceramics is an experienced and certified manufacturer of dental blanks made from different types of zirconium oxide. With our longstanding expertise and single isostatic pressing method, we achieve consistent product quality from batch to batch. This is accomplished by using specifically defined production parameters for each material type and raw material batch.

■ **STARCERAM® Z-Smile, Z-Smile Colour and Z-Smile Multi Shade**

Flexural Strength 600 +/- 100 MPA. Full contour crowns, up to 3-units.
High Translucent Zirconium Oxide Dental Blanks in Pre-coloured and Multi-Shade Versions

■ **STARCERAM®Z – Nature Ultra and Z Nature Colour**

Flexural Strength 1000 +/- 200 MPA. Copings full contour crowns, up to 16 units.
High Strength Zirconium Oxide Dental Blanks with Superior Translucency in Pre-coloured Versions





■ **STARCERAM®Z - Nature, Z Nature Colour and Z Multi Shade**

Flexural Strength 1000 +/- 200 MPA. Copings full contour crowns, up to 16 units.
Translucent Zirconium Oxide Dental Blanks in Pre-coloured and Multi-Shade Versions

■ **STARCERAM®Z – AI Med HD and Z AI Med HD Colour**

Flexural Strength 1200 +/- 200 MPA (AI Med HD) & 1000 +/- 200 MPA (AI Med HD Colour)
Copings up to 16-unit bridges, inlays, onlays.
White opaque and opaque precoloured type

MATERIAL COMPARISON CHART

Material description	Starceram® Z-AL Med HD	Starceram® Z-AL Med HD Colour	a) Starceram® Z-Nature b) Starceram® Z-Nature Colour Starceram® Z-Nature Multi Shade	a) Starceram® Z-Nature Ultra b) Starceram® Z-Nature Ultra Colour	a) Starceram® Z-Smile b) Starceram® Z-Smile Colour c) Starceram® Z-Smile Multi Shade
Colour: available versions	white opaque	white opaque precoloured type 500 , 800 , 1000 , 1333 , 2000	a) translucent pure b) translucent precoloured in A1, A2, A3 , A3.5 c) translucent polychromatic pre-coloured in A2 and A3	a) superior translucent pure b) superior translucent pre- coloured A1, A2 , A3, A3.5 , B3 C2	a) high translucent pure b) high translucent precoloured in A1 , A2, A3 , A3.5 , B2 , B3 , C2, D2 c) high translucent polychromatic precoloured in A2 and A3
Translucency			 Value for version pure	 Value for version pure	 Value for version pure
Flexural Strength MPA	1200 +/- 200	1000 +/- 200	1000 +/- 200	1000 +/- 200	600 +/- 100
Sintered Density	> 6,05	> 6,00	> 6,00	> 6,00	> 6,00
Thermal expansion 10 ⁻⁶ K ⁻¹	10,7	10,7	10,7	10,7	10,4
Sintering temperature	1450 °C	1450 °C	1450 °C	1450 °C	1450 °C
Indication	Copings, up to 16-unit bridges, inlays, onlays, individual abutments	Copings, up to 16-unit bridges, inlays, onlays, individual abutments	Mostly full contour crowns, up to 16 unit full contour bridges, but also copings, up to 16-unit bridges, individual abutments	Mostly full contour crowns, up to 16 unit full contour bridges, but also copings, up to 16-unit bridges, individual abutments	Mostly full contour crowns, up to 3-unit full contour bridges, but also copings, up to 3-unit bridges