ALPHABOND dental

Ph: (02) 9417 6660 www.alphabond.com.au

Aidite

1300MPa High Strength I Resistant to Fracture
Sustained Stability

Everyone with a healthy and beautiful smile

ALPHABOND dental

Ph: (02) 9417 6660 www.alphabond.com.au

Product advantage

3D Pro zir MAX is a next-generation multilayer zirconia developed for demanding cases.

4Y-TZP composition

· Up to 48% translucency (significantly higher than traditional 3Y zirconia).
· Excellent physico-chemical stability.
· Uniform shrinkage guarantees precise fit and resistance to deformation, even in long-span bridges.

Pro for Long Bridge Functional

· Flexural strength up to 1300 MPa and excellent anti-aging performance.
· Guaranteeing long-term clinical durability and performance.

Digital processing

· Natural color gradient, no stain immersion.
· Final delivering requires glazing only.

Specialized in Aesthetics
Tailored for long-span bridges

Engineered for Toughness
Safe & fracture-resistant

Specialized in Durability
Stable & anti-aging

Flexural Strength **1300MPa** Translucency **48%**

Engineered for Strength; Refined for Aesthetics

Indications

Screw-retained bridge

Cement-retained bridge

This product is suitable for full-arch restorations (FULL ARCH), adheres to the ALL-ON-X concept, and screw retention is the preferred solution.

*Data tested by Aidite Product Technology Center. Individual results may vary depending on processing protocol and equipment.

Shade

A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 OM1 OM2 OM3

Parameters and application systems

Flexural Strength	≥1300MPa
Fracture Toughness	≥5MPa·m$^{0.5}$
Vickers Hardness	≥1250HV10
Sintered density	≥6.0g/cm^3
Chemical Solubility	≤100μg·cm^{-2}
Coefficient of thermal expansion (CTE 25-500℃)	(10.5±0.5)×10^{-6}K^{-1}

98mm 95mm 92×75mm

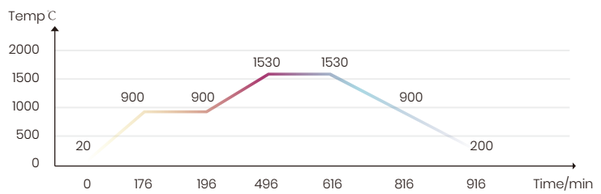
Thickness: 20, 22, 25, 28, 30mm, ect

Sintering Circle

Long Bridge Sintering Curve: 15 hours

Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Holding time	Phase 2 Maximum temp	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to	Cooling rate	Cooling to	Open furnace at
20℃	5℃/min	900℃	20min	2℃/min	1530℃	120min	3℃/min	900℃	7℃/min	200℃	100℃

Phase	Temp/℃	Time/min
1	20	176
2	900	20
3	900	300
4	1530	120
5	1530	200
6	900	100
7	200	-121



Case