

THE PHYSICS OF STABILITY

Compressive Bonding Technology

ValidTi's CTE is engineered to be slightly lower than mainstream ceramics. This creates a beneficial "**Compressive Effect**" during cooling.



01. SYSTEM COMPATIBILITY

VITA® System
VM13, Titanium Ceramics

Ivoclar® System
IPS d.SIGN, Style

Noritake® System
Super Porcelain Ti-22

* Trademarks belong to respective owners.

02. OXIDE LAYER REFERENCE TOOL

Step: Wash Opaque



Silver / Metallic
Temp too low.

[TARGET] Straw / Golden
Thin, adherent layer.

[RISK] Violet / Blue / Grey
Temp too high or contaminated. Oxide thick.

03. RISK MITIGATION PROTOCOL

- 1 Surface Preparation**
Sandblast: **Al₂O₃ (110µm)** @ **2-3 bar**. NO glass beads.
- 2 Passivation**
Steam clean 10s. **DO NOT TOUCH** with bare hands.
- 3 Bonding Agent & Cooling**
Apply bonder thinly. Fire under vacuum.

CRITICAL STEP:
Use **SLOW COOLING** (Long Term Cooling) program to balance stress.

VERTICAL CRACKS
Cause: Cooling too fast.
Action: Enable Slow Cooling.

BUBBLES
Cause: Contamination.
Action: Check steam cleaner / sand.

DISCLAIMER

"ValidTi" is a trademark of Valid Medical. Firing temps are approximate.

SUPPORT

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