




All-Ceramic

PRODUCTS	 IPS EMPRESS®	 WOL-CERAM®	 SINFONY™
Indications	Veneers, crowns, inlays & Onlays	Full coverage crowns, & Implant abutments	Veneers, full-coverage crowns, Bridges, Inlays Onlays, and Implant suprastructure
Features /Benefits	Metal-free Natural aesthetics Superior strength High translucency Ex. Marginal Integrity Wear compatibility	Precise fit Conventionally cemented Traditional PFM preps Cost effective Consistent thickness Ex. Marginal integrity	Hi-plaque resistance Inc. abrasion resistance Low modulus of elasticity
Preparation	Shoulder margin design 1.0mm Min. at the margin 1.5-2.0mm reduction at Incisal, facial lingual	Any margin design. Traditional 1.5-2.0mm axial wall, incisal occlusal	But joint or supragingival margin design. 1.0mm Minimum at the margin. 1.5-2.0mm reduction at Incisal, facial lingual
Cementation	Enamel-dentin adhesive Bonding system	Dual cured resins, or zinc phosphate cements	Enamel-dentin adhesive bonding system
Composition	Leucite reinforced core	Alumina cores	Strontium glass & silica fillers
Physical Properties	a. Flexural strength 220 Mpa b. Compressive strength 200 MPa c. Bonding strength d. Impact strength e. Marginal gap width < 50 µm f. Water absorption g. Marginal integrity < 50 µm h. Flexural modulus	500 MPa (Alumina)	105MPa 400MPa 7.5mj/mm ² 19µg/mm ³ (60 days) 4.8 GPa
Proven Success in-mouth	10+ years	14+ years	7+ years
In-Lab Time	10 days	10 days	5 days
Other Products Offered	Lava™, Procera®, Captek™, PFM, FCC, Implants, Acrylic dentures, Acrylic/Metal partials and Valplast® flexible partial.		

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 Lava™, Sinfony® is registered trade marks of 3M ESPE. Vita®, In-Ceram® is a registered trade mark of Vident. Procera® is a registered trade mark of Nobel Biocare.
 Captek™ is a registered trade mark of Precious Chemical, Inc. Valplast® is a registered trade mark of Valplast International Corporation.