

Vsmile HappyZir Zirconia Disc Family

Selecting the right zirconia for your lab production



High translucency Materials (HT) for frameworks: 1350 MPa.

Vsmile HT Zirconia Blocks are the highest strength material for frameworks and hybrid implant custom abutments, it's kind of our first generation zirconia, only white color available.

Recommended coloring techniques:

Hybrid technique — start with brushing an inhibitor or enamel shade to the incisal area and then dipping the crown as discussed above. The inhibitor generally has no color, but partially fills the pores of the zirconia. As a result, when dipped, the body shade penetrates less, leaving the incisal area where the inhibitor or enamel shade was painted less chromatic.



Super translucency Materials (ST) for full contour bridges: 1200MPa;

Ultra translucent (UT) for anterior single units and 3 unit bridges: 700 MPa.

Vsmile ST and UT have been designed as monolithic materials and layered zirconia material. There are now three sub categories of materials:

White (with and without matching green state coloring systems)

Pre-shaded, 16 different pre-shades

Multi-shaded, 20 different pre-shades (Vita 16 Shades + Bleach color) with transition layers



3D Multi-colored & multi-translucency block: One for all usage.

Vsmile 3D Zirconia Disc offers a combination of multi translucencies and colors. These discs will be most opacous and more chromatic in the bottom or cervical part of the disc, while the middle will be less opaque and lower in chroma and have less strength (1050 MPa), and the top of the disc will be 14% more translucent than the cervical with a flexural strength of 700 MPa.

This type of disc has several different layers with a blended zone between each. In addition to translucency transitions, there are shade transitions as well. To date, this disc provide the most life-like restorations possible for restoration.