TiUnite™ is a highly crystalline and phosphate enriched titanium oxide characterized by a microstructured surface with open pores in the low micrometer range. The TiUnite™ implant surface has repeatedly proven to give an enhanced bone response compared to machined implant surfaces. Nobel Biocare has received FDA clearance to claim a more rapid bone formation and greater amount of bone in contact with the TiUnite™ surface during healing. The enhanced bone response to TiUnite™ results in faster and stronger osseointegration and, thereby, better maintenance of the implant stability compared to machined titanium implants. When placed in soft bone and immediately loaded, the enhanced osseointegration of Nobel Biocare TiUnite™ implants results in higher success rates compared to machined implants. These claims are supported by extensive research.

In addition to the publications supporting the FDA-cleared claims for the TiUnite™ implant surface, more than twenty references are available, which cover the use of TiUnite™ implants in various clinical and preclinical situations, using different types of protocols, and with various follow-up times.

References


