

Quality facts about Straumann Dental Implants



At Dentalinc we strongly believe in advocating the highest quality dental implants, Straumann®.

Here are some facts about quality (implant material composition and implant surface design) for your information:

What to know: Material Composition

Straumann's Roxolid® Dental Implants is an alloy of ~85 % titanium and ~15 % zirconium. The combination of the properties of these two metals leads to higher tensile and fatigue strength than comparable titanium implants (Bernhard et al., 2009; Grandin et al., 2012; Ho et al., 2008; Kobayashi et al., 1995).



Did you know?

- Roxolid® shows a 10 – 15 % higher ultimate tensile strength compared to titanium grade 4 implants (Medvedev et al. 2016).
- The fatigue strength of Roxolid® SLActive® reduced-diameter implants was found to be up to 21 % greater than that of comparable titanium SLActive® Implants (Medvedev et al., 2016).

What to know: Surface Design



The classic SLA® surface, introduced in 1998, is based on a large grit sandblasting technique that generates a macro-roughness on the titanium surface. This is followed by acid-etching that superposes a micro-roughness. The resulting topography offers an ideal structure for cell attachment. Many peer-reviewed clinical and preclinical studies have confirmed its strong long term performance and reliability. According to an independent study, the odds ratio of developing peri-implantitis was more than three times higher in patients treated with competitor implant systems compared with Straumann® implants with SLA® surfaces.

Did you know?

- Today, dentists and their patients expect not only a successful dental implant treatment but also a short treatment time. The SLA® surface is one of the best long-term documented surfaces in dental implantology (Buser et al., 1991; Cochran et al., 1996).
- The Roxolid® material and the SLActive® surface technology each received the Frost & Sullivan Medical Device Technology of the Year Award.