

# DOCUMENTATION | DENTSPLY FRIADENT

## FRIADENT<sup>®</sup> plus Surface Fact Sheet

<b>General</b>	<b>Clinical application</b>	In clinical use and fully documented since July 2003 in an international user trial
	<b>Products</b>	All implant systems by DENTSPLY Friadent have the FRIADENT <sup>®</sup> plus surface
	<b>Publications</b>	Comprehensive studies on basic research and long-term clinical use of the FRIADENT <sup>®</sup> plus surface
	<b>Long-term clinical success rate</b>	Such as the study by Degidi/Piatelli/Gehrke/Carinci: overall success rate of 99.6 percent with 802 implants placed, in: JOMI 2006; 21(5): 763–768
<b>FRIADENT<sup>®</sup> plus surface</b>	<b>Surface structure following the example of nature</b>	<ul style="list-style-type: none"> <li>▪ Growth-activating microstructure promotes fast fibrin formation</li> <li>▪ Dense fibrin network for fast cell adhesion</li> <li>▪ Accelerated bone apposition for increased primary stability</li> <li>▪ Homogenous bone-implant contact for greater stability</li> <li>▪ High removal torque for greater treatment safety</li> </ul>

<p><b>Osseointegration</b></p>	<p><b>Acceleration of the osseointegration process:</b></p>	<ul style="list-style-type: none"> <li>▪ Surface macro and micromorphology</li> <li>▪ Biocompatibility</li> <li>▪ Wetting properties</li> <li>▪ Chemical composition</li> </ul>
<p><b>Three-dimensional surface structure</b></p>	<p><b>Manufactured in two stages:</b></p>	<ol style="list-style-type: none"> <li>1. <b>Primary FRIADENT® plus microstructure</b> Primary roughness of titanium surface established by corundum-blasting in the endosseous section</li> <li>2. <b>Secondary FRIADENT® plus microstructure</b> Growth-activating microporosity of surface by specific thermal etching process (FRIADENT® BioPoreStructuring)</li> </ol>