

We have opted for the Grade 5 titanium alloy, which contains little oxygen and iron, because of its excellent **biocompatibility** and its high mechanical characteristics. Indeed, a number of studies* have defined it as the reference material in orthopedic surgery, particularly in dental implantology.

Composition and mechanical characteristics of the grade 5 titanium alloy used for making Easy Implant® implants and prosthetic components

O	Fe	C	N	Al	V	Ti
0,11%	0,14%	0,008%	0,009%	6,18%	4.02%	89,53%
Grade	Elastic yield	Tensile strength		Elongation in %		
1	220	345		35		
2	345	485		28		
3	450	585		25		
4	560	680		23		
5	900	980		15		

O = Oxygen Fe = Iron C = Carbon N = Nitrogen Al = Aluminium V = Vanadium Ti = Titanium

Technical remark :

The Grade 5 titanium alloy TA6V complies with standard ISO5832-3 and ASTM F136

* Evaluations of bone tissue integration to pure and alloyed titanium implant
 STENTPORT VF, JOHANSSON C.B
 Clinical implant dentistry and related research 2008, Vol. 10 n° 3 page 191-199



After-sales data :

After-sales follow-up and statistics on the success of our implant are undertaken. In case of implant failure, we study the case so as to identify the causes of failure. This feed-back enables us to take necessary action to improve our product.

**Results from the insertion of Easy Implant® implants
at the end of December 2012**

Years	2006	2007	2008	2009	2010	2011	2012
Number of implants	5802	7397	11516	15019	17919	19621	18754
Success rate	99,24%	99,11%	98,61%	99,18%	98,82%	99,12%	98,75%
Number of implants Dr BEYAERT	701	813	768	848	805	842	843
Success rate Dr BEYAERT	97,52 %	98.13 %	96.64 %	97.71 %	98.62 %	97,99 %	97,28 %

Main identified causes of failure

Infections	13,79%	13,65%	12,5%	15,62%	20,58%	12,72%	22,22%
Lack of primary stability	20,69%	29,54%	15,64%	19,37%	19,60%	23,70%	18,37%
Traumatic causes	10,34%	11,36%	17,18%	10%	21,56%	18,50%	16,24%
Handling errors	6,9%	2,27%	14,06%	5%	0,98%	2,31%	7,69%
Unknown causes	48,28%	43,18%	40,62%	50,01%	33,32%	42,77%	35,47%

Interpretation :

In this retrospective analysis of the period 2006-2012, the low implant failure rate confirms the efficient use of our dental implants. Our system has good results. As a matter of fact, our sales have considerably increased during the last few years, which did not have any adverse effects on our product. We were even able to improve our prevention and communication actions with respect to our customers. Reviewing instruction manuals, organizing the follow-up of drills or simplifying surgery protocols have contributed to improving the use of the medical system. All this information can also help us better analyze the risks and reduce residual risks.

EASY IMPLANT

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