

Defeat the
Ordinary



MGM
IMPLANT

Driven by Innovation.

Trusted by Dentists Worldwide

OUR VISION

MGM IMPLANT is committed to delivering the highest quality across all product lines and services, tailored for distinguished dental professionals worldwide. Specializing in the field of implantology under the TS-EN-ISO 13485:2016 quality management system. We combine advanced technology with deep industry know-how.

Since 2008, as a manufacturer based in Baesweiler, Germany, MGM IMPLANT has been producing a comprehensive range of implant systems for clients around the globe. We never compromise on quality and maintain a strong international sales and service network, allowing us to meet the needs of dental professionals with confidence and consistency.

Our vision is to become a leading global brand by continuously improving our expertise in the healthcare sector, staying loyal to ethical values, and raising the bar in quality standards. We are proud to serve dentists with innovative, precise, and dependable implant solutions.



RESEARCH & DEVELOPMENT



The multi-year experience in the industry not only ensures assessment and innovation of design and functionality of our products and materials, but also allows us to offer practitioners a wider range of products which are all studied in-depth and tested in house, but we do even more.Indeed,



MGM implants also relies on the cooperation of university and higher education institutions and entities, to further check the reliability of its offering means of the latest cutting-edge technologies.



All products offered by MGM implants stand out for their high quality. Sophisticated control systems constantly monitor all production stages and automatically intervene in case of deviations compared to set parameters. Production control is based on SPC protocols (Statistic Process Control), whereby quantity and frequency are set (depending on product type) as well as the acceptability criteria.



MGM
I M P L A N T

Discover
the Purity

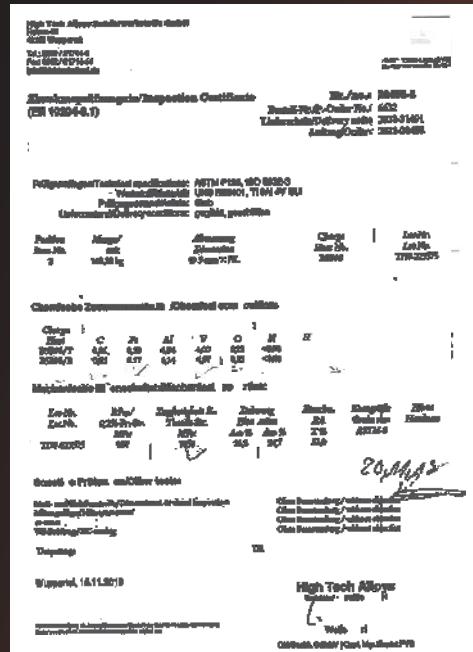


MATERIAL TO USE



MGM implants RAW MATERIALS is Titanium Grade 5 (Ti-6Al-4V) which Has superior mechanical properties, including higher strength and fatigue resistance, which are crucial for withstanding the forces of chewing and for long-term durability. While Grade 4 (commercially pure titanium) is biocompatible and easier to machine, it has lower strength and fatigue resistance.

Our Titanium certified raw materials which have previously passed crack tests, on behalf of our quality management systems through additional tests to ensure prime quality material.



Second section title " RAW MATERIAL purity "

MGM Titanium Grade 5 (Ti-6Al-4V) is widely used in medical implants due to its excellent biocompatibility, corrosion resistance, and mechanical strength And the Cytotoxicity of Titanium Grade 5 (Ti-6Al-4V)

Generally Non-Cytotoxic:

Ti-6Al-4V is considered non-cytotoxic, meaning it does not harm or kill cells under normal conditions. It is classified as biocompatible and safe for long-term implantation in the human body.

Medical Standards Compliance:

Ti-6Al-4V meets ISO 10993 and ASTM F136/F1472 standards for medical-grade materials.

These include cytotoxicity, sensitization, genotoxicity, and implantation tests.

Surface Treatments Matter:

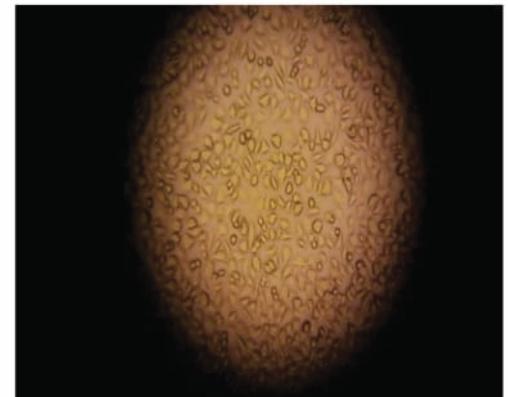
Cytotoxicity can vary depending on surface finishing, cleaning, or contamination during manufacturing.

Aluminum and Vanadium Concerns:

While aluminum and vanadium are toxic in ionic form, their release from well prepared Titanium Grade 5 is minimal. So, MGM implants titanium materials are Biocompatible and non-cytotoxic. And Safe for use in dental and orthopedic implants.



C. Sample



Must No.	Test Material	Reaction	Situations of Cultures
1	Negative Control	0	Discrete endoluminal granules, cell disruption/no, nodecrease in cellproliferation
2	Positive Control	4	Nearly all cellayers have been destroyed
3	Sample	0	Discrete intraplasmagranules, no cell destruction, no decrease in cell proliferation



Why Titanium Grade 5 ?

A: High strength and resistance:

Titanium Grade 5 is 40% Mechanically more durable than Grade 4 titanium closest to it.

B: light weight:

The higher the purity of titanium, the lighter its alloy becomes.

C: Corrosion resistance:

This alloy has a very good resistance to corrosion, especially in body environments such as bones and blood.

D: Long life:

Grade 5 implants have a longer life due to their high resistance and good biocompatibility and do not require frequent replacements.

Review of articles on titanium implant grade:

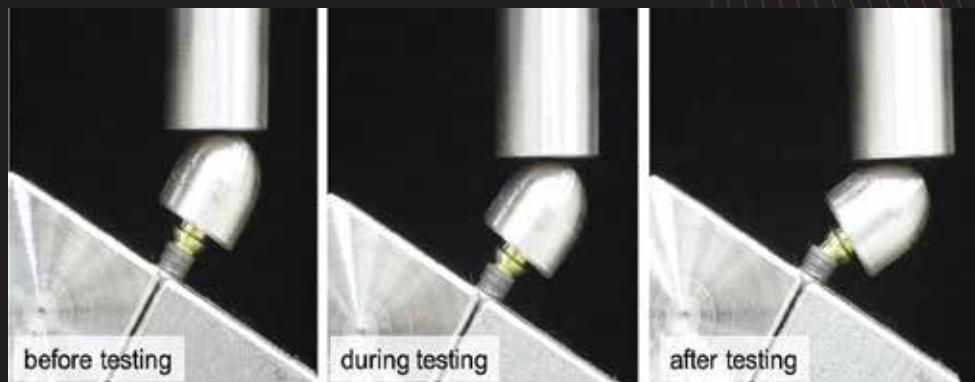
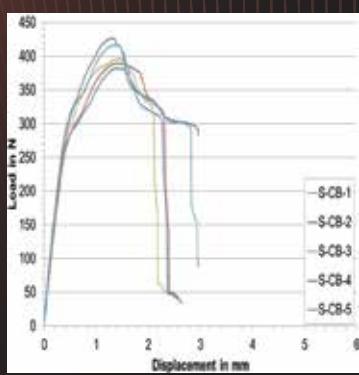
Histomorphological and Histomorphometric Analyses of Grade IV Commercially Pure Titanium and Grade V Ti-6Al-4V Titanium Alloy Implant Substrates

An In Vivo Study in Dogs

Ribeiro da Silva, Jonathan DDS, MS; Castellano, Arthur DDS; Malta Barbosa, João Pedro DDS; Gil, Luiz F. DDS, MS; Marin, Charles DDS, MS, PhD; Granato, Rodrigo DDS, MS, PhD; Bonfante, Estevam A. DDS, MS, PhD; Tovar, Nick PhD; Janal, Malvin N. PhD; Coelho, Paulo G. DDS, PhD

According to this article and many others:

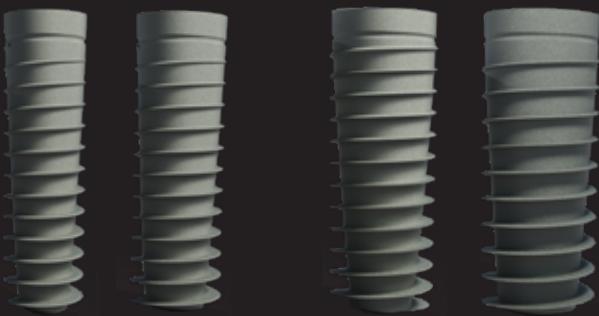
After comparing all the factors between grade 5 and grade 4, it was found that there is no difference in terms of bone adhesion and osseointegration between these two grades.



MGM

I M P L A N T



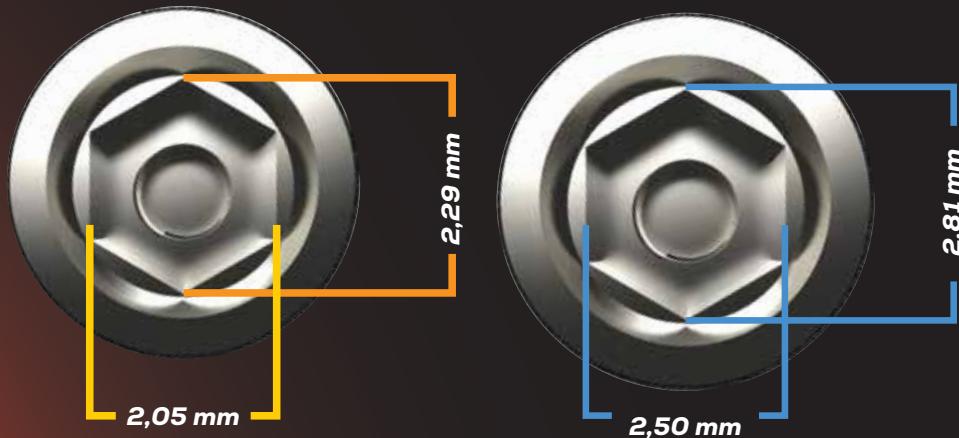


3.4 MGM IMPLANT

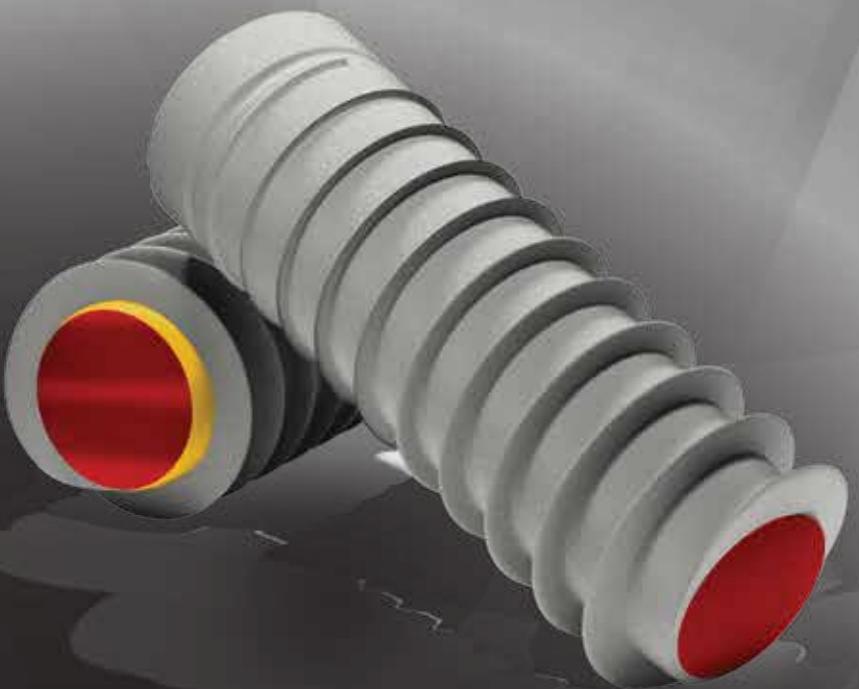
3.8 MGM IMPLANT

4.3 MGM IMPLANT

4.8 MGM IMPLANT

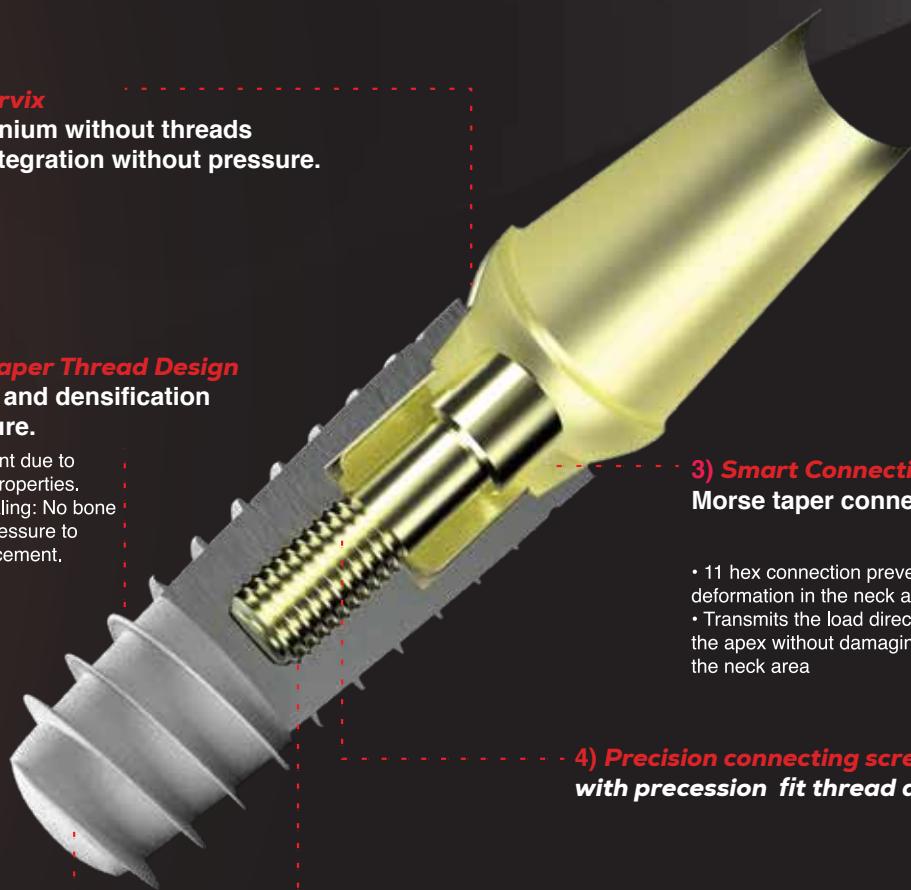


Diameter	Length	Codes	NARROW PLATFORM
Ø3.4	9	MGM3409	NARROW PLATFORM
	11	MGM3411	
	13	MGM3413	
Diameter	Length	Codes	NARROW PLATFORM
Ø3.8	7	MGM3807	NARROW PLATFORM
	9	MGM3809	
	11	MGM3811	
	13	MGM3813	
Diameter	Length	Codes	STANDARD PLATFORM
Ø4.3	7	MGM4307	STANDARD PLATFORM
	9	MGM4309	
	11	MGM4311	
	13	MGM4313	
Diameter	Length	Codes	STANDARD PLATFORM
Ø4.8	7	MGM4807	STANDARD PLATFORM
	9	MGM4809	
	11	MGM4811	
	13	MGM4813	



1) Smart cervix

Treated Titanium without threads
for better integration without pressure.



2) Smart Paper Thread Design

for cutting and densification
with pressure.

- Easy placement due to self-threading properties.
- Fast bone healing: No bone chips and no pressure to the bone at placement.

3) Smart Connection

Morse taper connection 11°

- 11 hex connection prevents deformation in the neck area.
- Transmits the load directly to the apex without damaging the neck area

4) Precision connecting screw ,

with precession fit thread design.

5) Smart Apex Design

for better directing and safety.

6) Exceptional

**biomechanical M-pure surface
treated Titanium.**

Smart Paper Thread Design

MGM implants have smart unique paper thread designs machined in a smart manner to help our dentists to get outstanding results. MGM implants has a smart unique bone Friendly thread design that cuts inside the bone without distraction which it helps for faster healing processes.



Benefits For Bone:

Improvement of bone density and Quality.

Through compression and osseodensification of bone trabeculae between the wide pitches of MGM implants thread designs during the insertion.

Even Stress Distribution

Minimizes bone micro-damage and resorption.

Crestal Bone Preservation

Shallower threads near the top reduce pressure on cortical bone.

Self-Condensation in Soft Bone

Threads compress bone rather than cutting it, increasing density and stability.

Improved Osseointegration

Maximizes bone-to-implant contact due to thread geometry.

Benefits For Doctors :

Easy and Controlled Insertion

self-guiding shape allows precise and safe placement.

Ideal for Immediate Placement & Loading

Excellent stability reduces micromovement risks.

Versatile Across Bone Types

Performs well in both hard and soft bone—fewer implant types needed.

Self-Condensation in Soft Bone

Threads compress bone rather than cutting it, increasing density and stability.

Minimally Invasive Drilling Protocol

Smaller osteotomies required—preserves native bone.

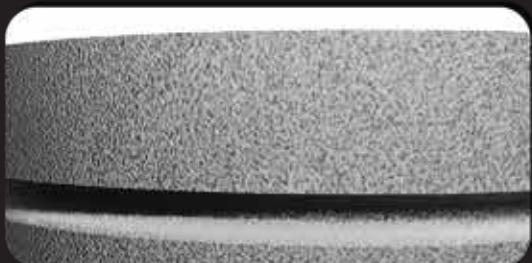
Reduces Surgical Time & Complexity

Simplifies clinical workflow, especially in narrow ridges or fresh sockets.

Discover the *Smart Properties*

MGM
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MGM implants Smart Cervix plays a critical role in soft tissue integration, hygiene, and crestal bone preservation.



Key Benefits of Having a Smart Cervix:

Improved Soft Tissue Adaptation

Improved Soft Tissue Adaptation

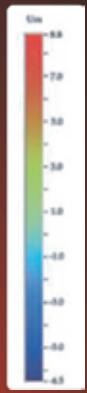
Creates a tight seal around the implant, acting as a barrier to bacteria.
Aids in the formation of a healthy, stable peri-implant mucosa.

M-Pure Surface

The MGM Implants "M Pure" surface treatment is a moderately rough surface modification technology designed to enhance osseointegration while maintaining high biocompatibility.

"M Pure" Surface is a proprietary surface treatment that typically involves: Sandblasting with biocompatible materials (e.g., titanium oxide).

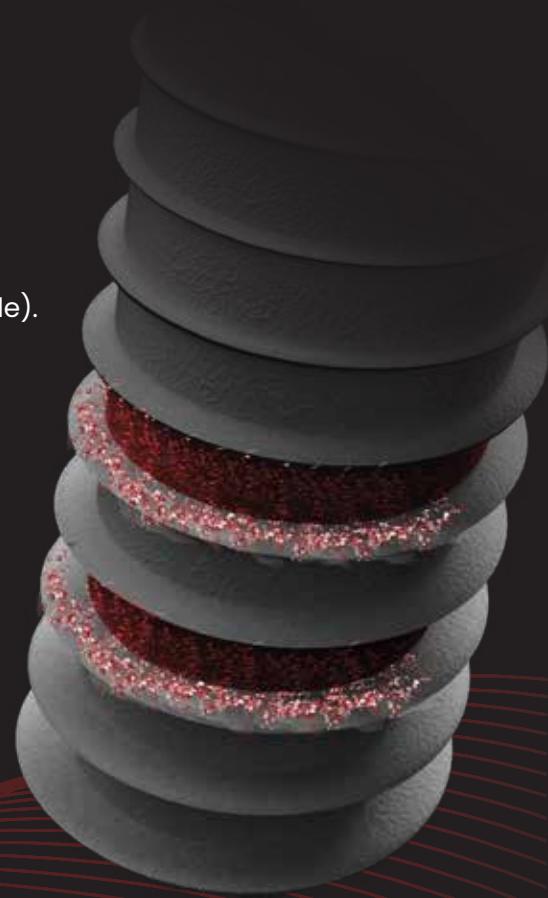
No acid-etching or chemical surface modification (hence "pure").



Date: 07/20/2009

Title: OIMF4109

Note: 1



Roughness Value is Ra 1.42 – 1.74 which is ideal value of M- Pure Surface treatment for OSSEointegration

Moderate Surface Roughness

No acid-etching or chemical surface modification (hence "pure").

High Purity / Clean Surface

Free from chemical residues or embedded particles; improves biocompatibility.

Reduced Inflammatory Response

Minimizes risk of peri-implantitis due to lower bacterial adhesion.

Faster Healing Than Machined

Implants and More bone apposition than machined surfaces too.

Long-Term Stability

Adequate for conventional loading protocols.

Biocompatible Material Use

Only titanium or titanium oxide used; no aluminum or acid residues.

Dimensional Interactive Display

Surface Stats:

Ra: 1.68um

Rq: 1.81um

Rt: 15.35

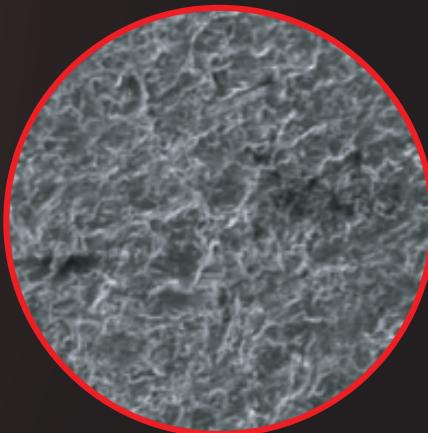
Measurement Info:

Magnification: 19.86

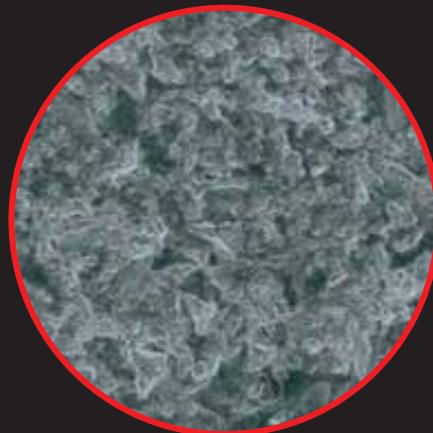
Measurement Mode: VSI

Sampling: 498.41 nm

Array Size: 640x480



x400



x500