



Degulight®

The cost-effective alternative among precious metal dental alloys for ceramic.

DeguDent

A Dentsply International Company

Degulight – a high percentage of precious metal at a low price.

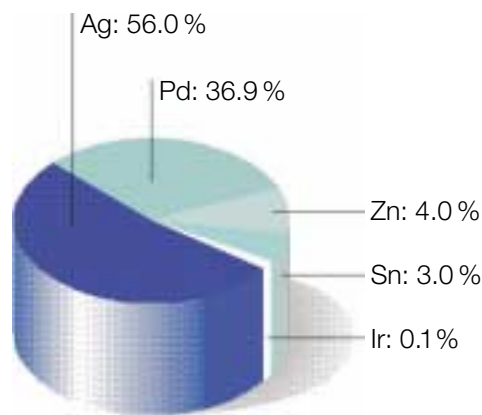
**93% precious metal,
100% DeguDent
experience.**

If you want to offer your dentist an optimal alternative to nonprecious metal and precious metal containing nonprecious metal, then Degulight is just what you're

looking for. Because Degulight is a precious metal dental alloy that combines solid material properties, a good price and convincing aesthetics.

All of DeguDent's alloy expertise.

DeguDent has been developing precious metal dental alloys for more than a century. In doing this, we always aim for one thing: adapting precious metals to human needs and the requirements of the market. The expertise we've acquired influences each product development. With Degulight, you are therefore choosing maximum safety and experience as well.



**An alloy that shines in
the balance sheet too.**

It's a situation you know well. More and more dentists are being forced to prescribe nonprecious metals because of general cost pressure.

Thanks to Degulight, dentists and laboratories can now revert to their preference for precious metal even when patients don't want higher costs for high gold containing alloys. That's because Degulight is so low priced that the total costs for patients are only slightly higher compared to restorations with nonprecious metal alloys.

**Degulight – convenient for your
laboratory.**

Only when handling a material every day do you notice how convenient it really is. Degulight acts just like you'd expect precious metals to – the alloy is easy to

process and gentle on rotating tools. What's more, you save on material, because it is low-density and easy to recast. Last but certainly not least, there's the ever-dependable DeguDent quality you're used to.

The benefits to your laboratory:

- **Low-priced, solid precious metal dental alloy**
- **Material saved by:**
 - Low density (10.9 g/cm³)
 - Recastability (1/3 old to 2/3 new)
- **Costs saved by easy processing**
- **Easy on tools**
- **The scrap can be added to the recycle material**

Degulight – a reliable material that's easy to work with.

Easy processing that results in a compatible restoration.

With Degulight, you're choosing a precious metal dental alloy that stands out in terms of both its low price and solid material properties – extra-hard strength (in accordance with EN ISO 9693) and a density that at just 10.9 g/cm³ is only slightly higher than the traditional non-precious metal alloys. What's more, the material is copper-free and with just five components is extremely resistant to corrosion and thus very biocompatible. You can also depend on the high temperature strength when you do ceramic veneering.

Processing Degulight is just as easy and saves just as much time as standard precious metal dental alloys. You don't need

any special investment and can easily process Degulight in all the usual casting units. You treat the surface of your dental object in the usual way, without any cost-intensive wear and tear on tools.

One alloy, many indications.

You can use Degulight in many different ways – multi-surface inlays, bridge frameworks of any physiologically representative span, individual attachments, direct casting of attachments – you can do it all with this extra-hard material. Essentially, you work with a reliable and versatile material that you can process well and feel good about recommending.

Naturally attractive dentures, veneered with Duceragold®.



With Degulight, you can meet even increased aesthetic requirements. That's because the alloy is great for veneering. In this, the use of our veneer ceramic Duceragold is especially important.

Amazing results with Duceragold veneering.

With Duceragold, you can meet the growing aesthetic demand of many patients.

That's because this hydrothermal ceramic guarantees natural-looking teeth. But Duceragold is also very appealing from a physiological standpoint. The ceramic actively counteracts plaque formation, and its hardness is adapted to natural tooth enamel. Duceragold thus looks after both gingiva and antagonist. At the end of the day, the result is an aesthetic denture that protects its immediate environment.

Safe veneering with Duceragold:

- Hydrothermal veneering
- Natural abrasion behaviour
- High bending strength
- Gingiva-friendly
- Gentle on antagonist
- Reduced plaque formation

All the advantages at a glance.

Material Properties:

- Just 5 elements, 3 of them precious metals
- High corrosion resistance
- Biocompatible
- Low density
- Extra-hard
- Can be fused to Duceragold
- High heat resistance in ceramic firing

Easy Processing:

- Surface processing as with high gold alloys
- Low wear and tear on tools
- No special investment required
- Castable in all standard melting and casting units
- Surface processing of high gold alloys
- Easy removal of metallic oxides

Wide Range of Indications:

- Multi-surface inlays
- Bridge frameworks of any physiologically representative span
- Milling of individual attachments
- Direct casting of attachments

Degulight Technical Data:

Type: Extra-hard, in accordance with EN ISO 9693
(can be fused to Duceragold)

Colour: White

Composition in:	Mass %	(Atomic %)
Silver (Ag)	56.0	(54.5)
Palladium (Pd)	36.9	(36.4)
Iridium (Ir)	0.1	(0.1)
Zinc (Zn)	4.0	(6.4)
Tin (Sn)	3.0	(2.6)

Melting range (°C): 1050–1130

Average lin. CTE* ($\mu\text{m}/\text{m} \cdot \text{K}$): 16.5 (25–500 °C)
16.9 (25–600 °C)

Vickers hardness (HV 5): f 170
h 230

0.2% yield strength** (N/mm²): f 330
h 510

Tensile strength** (N/mm²): f 560
h 730

Elongation at fracture** (%): f 10
h 8

Density (g/cm³): 10.9

* Coefficient of thermal expansion, ** Measurement of samples in accordance with EN ISO 9693

h = hardened (15 min/950 °C + 15 min/550 °C)

f = Properties that can be achieved after ceramic firing