

Harmony[®] 3

Silver-palladium-based casting alloy

Au
3.5

Pd
25.9

Ag
50.8

Cu
13.8

Sn
4.5

Zn
1.2

Re
< 1.0

Mn
< 1.0

Advantages

- Economical due to low density
- High stability
- Excellent handling characteristics
- Excellent polishing properties
- Suitable for bonding system and veneering composites

Indication

Inlays, onlays, partial crowns, single crowns, telescope and conus crowns, posts, short- and long-span bridges

Technical data

Type	4
Color	white
Density (g/cm ³)	10.6
Melting range (°C)	880 – 960
Casting temperature (°C)	1020 – 1050
Modulus of elasticity (MPa)	102.000

	Annealed	As cast	Oven hardened
Vickers hardness	200	230	225
0,2 % Proof stress (MPa)	350	470	470
Elongation (%)	18	14	13



Dental restorations fabricated by
H.P.Oss, Innsbruck, Austria

Harmony® 3

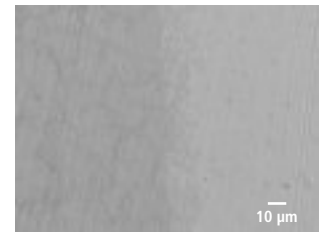
Harmony 3	
Composition (wt. %)	
Au	3.5
Pd	25.9
Ag	50.8
Cu	13.8
Sn	4.5
Zn	1.2
Re	< 1.0
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Properties	
Type	4
Color	white
Density (g/cm ³)	10.6
Vickers hardness	230
Modulus of elasticity (MPa/Nmm ²)	102.000
0,2 % Proof stress (MPa/Nmm ²)	470
Elongation (%)	14
Melting range (°C)	880–960
Casting temperature (°C)	1020–1050
Crucible	ceramic / carbon
Oven hardened °C / minutes	400 / 30
Indication	
Veneering	SR Adoro
Inlays	X
Onlays / partial crowns	X
Crowns	X
Short-span bridges	X
Long-span bridges	X
Telescope / conus crowns	X
Roots	X
Solder	
Solder	LFWG / .585
Laser welding wire	Laser C&B White
Certification	
CE	0197
ISO	22674
Biocompatibility	✓

Answering Market Needs

Alloys containing gold represent the standard for precious materials in restorative dentistry. Even in very small quantities, gold improves alloy properties and remains a highly desired component. However, soaring costs can make the use of gold-containing alloys prohibitive for everyday restorative purposes. Harmony® 3 contains 3.5% gold—making it the ideal, cost-effective noble alternative to less precious gold-free casting alloys. What's more, Harmony® 3 is an impressive economical choice because it demonstrates suitable low density and can be used for a wide range of indications, so laboratories can affordably satisfy their customers' needs for gold-containing restorations.

Solid Joints

Harmony® 3 can be perfectly joined using the tried-and-tested solders from Ivoclar Vivadent, when indicated. Material testing has confirmed excellent diffusion between the alloy and the solder, so technicians can be assured of a stable joint.



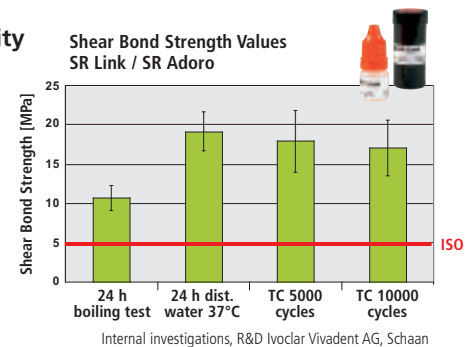
Fine-Tuned Veneering Composite ...

SR Adoro® is a microfilled, light/heat-cured veneering composite for use with the Harmony® 3 alloy for full and partial veneers. Suitable for the fabrication of both metal-supported and metal-free restorations, SR Adoro has been fine-tuned to perfectly complement the Harmony® 3 alloy, creating restorations that are a reflection of beauty.



... and Bonding System Compatibility

To generate a sound, durable bond between the Harmony® 3 alloy and the SR Adoro veneering composite, SR Link – a metal-composite bonding agent – is recommended. Material science testing has demonstrated that excellent bonds are achieved.



Cementation

For conventionally cementing Harmony® 3 restorations, Ivoclar Vivadent recommends the use of Vivaglass® CEM glass ionomer cement or a self-adhesive luting composite. The dual-curing Multilink® Automix used in conjunction with the self-etching Multilink Primer is the ideal universal composite for adhesive cementation.



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