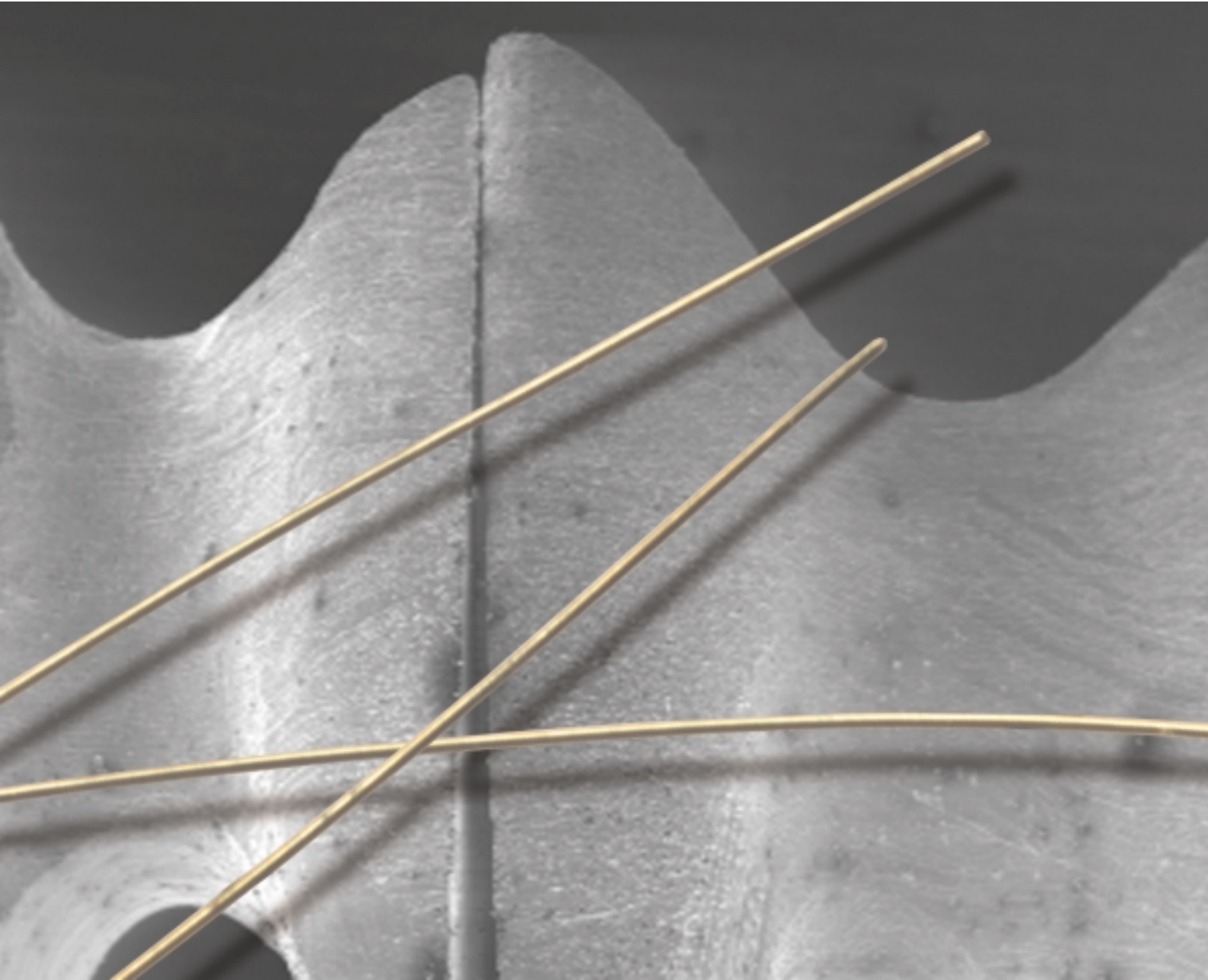
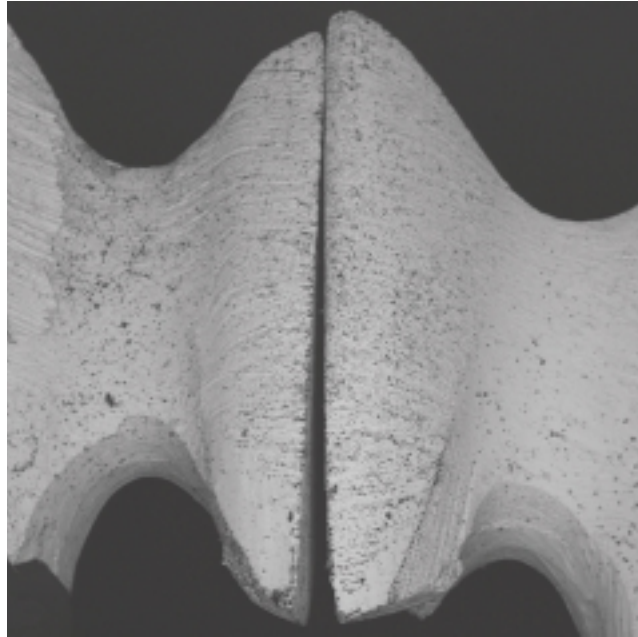


# Laser Welding Wires: Wires that unite



# Laser welding wires –



## Modern technology

Welding with laser beams is becoming increasingly popular in dentistry. For dental technicians, this technology represents an interesting challenge. Moreover, it presents a large spectrum of possibilities for the laboratory.

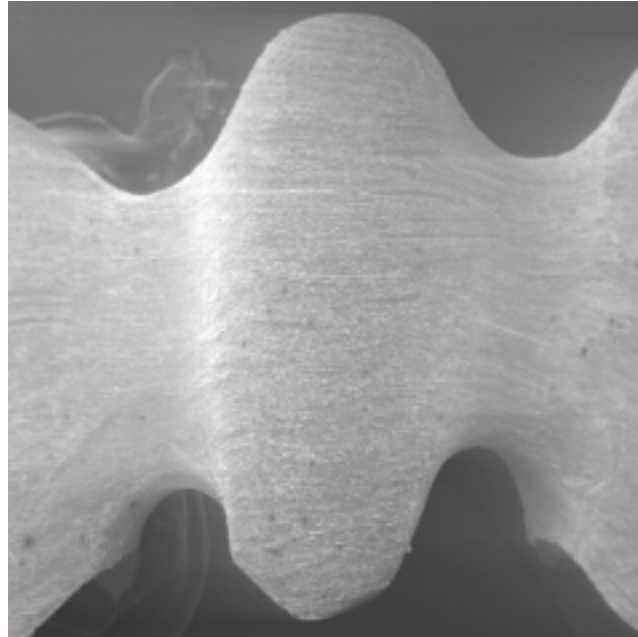
With this state-of-the-art joining technique and the biocompatible Ivoclar Vivadent laser welding wires, you will be able to weld your alloys quickly and with outstanding accuracy.

## High-quality joints

The compatibility of the laser welding wire and the alloy is requisite for high quality welding results. Ivoclar Vivadent paid particular attention to this aspect during the development of the laser welding wires. Furthermore, all the laser welding wires have been tested for cytotoxicity and corrosion resistance.



# a sound synthesis



## Indications

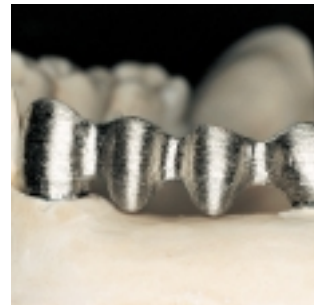
Extension of crown margins

Repairs

Joining of bridge elements

Implant superstructures

*De Roy &  
Wennemann,  
Zahntechnik,  
Bochum*



## Accurate joints

By precisely adjusting the energy output during the welding procedure, you can achieve optimum welding joints. The welding parameters are coordinated with the respective welding wires. Welding provides a joint almost equal in stability to that of a casting.

## Precious quality

Ivoclar Vivadent has developed five different laser welding wires for the laser joining technique. Their diameter is either 0.3 mm or 0.5 mm. All the wires are available in rods or wire coils. Hence, the delivery form can be selected according to personal preference.

## Strong advantages

- The laser welding wires are ideally coordinated with the Ivoclar Vivadent alloys
- Corrosion resistant, homogeneous crystal structure
- High mechanical stability
- Choice of delivery form

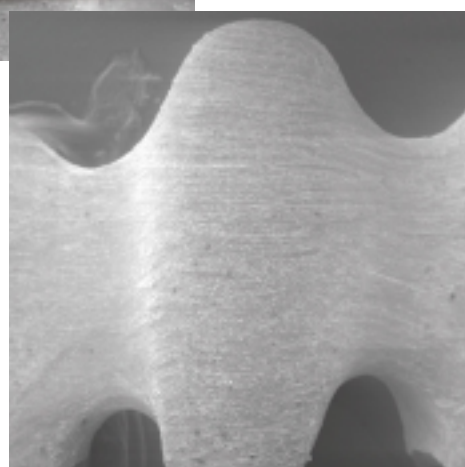
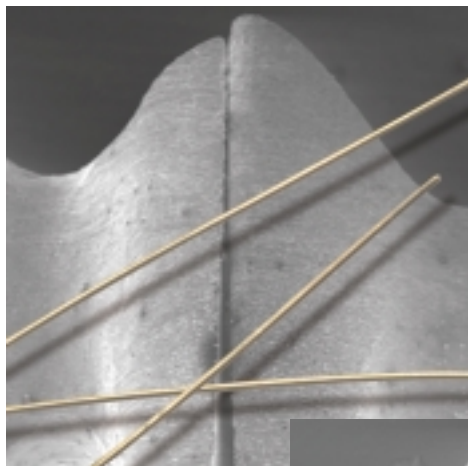
# Customer advantages

Ivoclar Williams offers its laser welding wires in practice-oriented delivery forms.

The wires are available with two different diameters. Depending on your personal preference, you may choose between wire coils or rods.

The colored marking prevents confusion of the different wires.

Please contact us if you have any questions regarding the use of the laser welding wires.



## Laser Welding Wires

	Au	Pt	Pd	Ag	Cu	Fe/Mn	In	Ir	Ru	Ta	Zn
Laser Ceramic Yellow	85.0	7.45	3.0	3.0			1.5	0.05			
Laser Ceramic White	50.0		24.4	21.5			4.0		0.1		
Laser Ceramic Yellow Pdf	85.9	12.09				0.2	0.1	0.01		0.2	1.5
Laser C&B Yellow	75.0	2.99		13.5	7.0		1.5	0.01			
Laser C&B White	18.5		5.99	72.5			3.0	0.01			

Overview of the composition of the Ivoclar Vivadent laser welding wires in % weight

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