

IMPLANTS, DEVICES AND DENTAL RESTORATIONS

NB Exact metal composition may vary

DENTAL

Amalgams Zinc is also present but is not tested in MELISA	Crowns non noble Stainless steel, nickel/chromium or cobalt/chromium	Crowns noble Precise alloys used vary between dental laboratories
Silver	Chromium	Gold
Tin	Molybdenum	Platinum
Copper	Manganese	Silver
Inorganic mercury	Cobalt	Palladium
Nickel	Nickel	Indium
		Ruthenium
		Iridium
		Gallium

Cobalt-Chromium implants	Titanium Implant (dental)	Maryland bridge
Cobalt	Titanium dioxide	Cobalt
Chromium	Titanium sulphate	Chromium
Molybdenum	Aluminium	Molybdenum
Tungsten	Vanadium	Nickel
Manganese	Nickel	Tungsten
Nickel		

Root fillings	Braces/Retainers
Bismuth	Chromium
Tantalum	Manganese
Cadmium – older restorations	Molybdenum
Formaldehyde – older restorations	Nickel

ORTHOPAEDIC AND CV

Titanium Implant (spinal)	Surgical steel/ stainless steel	Cobalt Chrome TKR /THR
Titanium dioxide	Chromium	Cobalt
Titanium sulphate	Molybdenum	Chromium
Aluminium	Manganese	Manganese
Vanadium	Nickel	Tungsten
Nickel	Tungsten	Nickel
Tantalum and Niobium may		Molybdenum
be present		

Cement	Oxinium	Stents
Methyl methacrylate	Niobium	Stent alloys pdf
Benzoyl peroxide *	Zirconium**	

Pacemaker Wires	Essure
Cohalt	Essure Device 2019
	LSSUITE DEVICE 2019
Nickel	
Manganese	
	Cobalt Chromium Molybdenum Nickel

ENVIRONMENTAL AND MEDICATION			
Lead - from water pipes	Palladium - motorways	Methyl mercury – fish	
Cadmium - from polluted	Inorganic mercury -	Aluminium - vaccines	
areas	crematorium	adverse effect	
Gluten** – if digestive issues	Titanium dioxide – coating	Thimerosal – some vaccines	
present	on vitamins and medication	and flu vaccine	

^{*} Only tested at Swiss laboratory

** Developed for research only – not clinically validated