

Overview of materials and alloys

1. Cobalt-based alloys

chemical composition in wt %

Material	Co	Ni	Cr	W	Mo	Si	Fe	Mn	Ta	Nb	C	N	B
Designation													
Crowns and bridges /partial dentures													
remanium® star	60.5	–	28.0	9.0	–	1.5	–	< 1.0	–	< 1.0	–	< 1.0	–
remanium® segura	58.0	–	30.0	5.5	3.0	1.5	–	–	1.25	–	–	< 1.0	–
remanium® 2000+	63.0	–	23.0	5.0	7.0	1.5	–	< 1.0	–	–	–	< 1.0	–
remanium® 2001	63.0	–	23.0	4.3	7.3	1.6	–	< 1.0	–	–	–	< 1.0	–
remanium® GM 280	61.0	–	28.0	8.0	–	1.5	–	< 1.0	–	< 1.0	–	< 1.0	–
remanium® GM 380+	64.6	–	29.0	–	4.5	< 1.0	–	< 1.0	–	–	< 1.0	< 1.0	–
remanium® GM 800+	58.3	–	32.0	1.5	6.5	1.0	–	< 1.0	–	–	< 1.0	< 1.0	–
remanium® GM 900	62.0	–	30.0	–	5.5	1.2	–	–	1.2	–	–	< 1.0	–
Solders and filler materials													
CoCrMo-Sold 1	69.8	–	19.0	–	5.0	5.0	–	–	–	–	–	–	1.2
CoCr welding wire	65.0	–	28.0	–	5.5	< 1.0	–	< 1.0	–	–	–	< 1.0	–

2. Nickel-based alloys

chemical composition in wt %

Material	Co	Ni	Cr	Mo	Si	Fe	Mn	Ti	Al	Nb	B
Designation											
Crowns and bridges /partial dentures											
remanium® G-soft	—	66.0	26.5	5.0	1.5	—	< 1.0	—	—	—	< 1.0
remanium® CSe	— ¹	60.0	26.0	11.0	1.5	1.2	—	—	—	—	—
Solders and filler materials											
NiCr-Sold 1	—	63.0	19.0	10.0	7.0	—	—	—	—	—	1.0
NiCr welding wire	< 1.0	63.0	22.0	9.0	—	< 1.0	—	< 1.0	< 1.0	3.5	—

3. Titanium / Titanium alloys

chemical composition in wt %

Material			Ti	Al	V	Fe	C	N	H	O
Quality	Norm	Number (DIN)								
1	DIN EN ISO 5832-2	3.7025	> 99.5	–	–	< 0.2	< 0.08	< 0.03	< 0.0125	< 0.18
2	DIN EN ISO 5832-2	3.7035	> 99.3	–	–	< 0.3	< 0.08	< 0.03	< 0.0125	< 0.25
3	DIN EN ISO 5832-2	3.7055	> 99.2	–	–	< 0.3	< 0.08	< 0.05	< 0.0125	< 0.35
4	DIN EN ISO 5832-2	3.7065	> 99.0	–	–	< 0.5	< 0.08	< 0.05	< 0.0125	< 0.40
5	DIN EN ISO 5832-3	3.7165	90.0	6.0	4.0	< 0.3	< 0.08	< 0.05	< 0.0150	< 0.20
23 ²	DIN EN ISO 5832-3	3.7165	90.0	6.0	4.0	< 0.25	< 0.08	< 0.05	< 0.0120	< 0.13

¹ up to 09/2021: < 1.0 %

² fulfills the requirements for Ti Al6V4 ELI; chemical composition acc. to ASTM F 136