




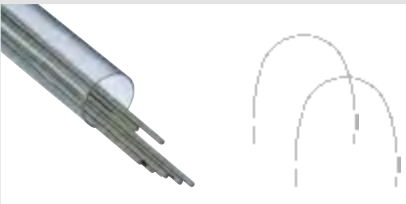


Service – Materialien für die nickelfreie Behandlung, KFO-Werkstoffliste
Service – Materials for ni-free treatment, analysis of materials



Ni-Free* Produkte: Brackets, Drähte, Schrauben

Ni-Free* Products: Brackets, wires, screws

*Nickel free



	Chapter	Description
	5	TruKlear® Brackets SL Keramik-Brackets SL ceramic brackets
	4	Sprint® II Mini Sprint® II Micro Sprint® Brackets Ni-Free Stahl-Brackets Ni-Free stainless steel brackets
	5	GLAM® Brackets Klassisch ligierendes, transluzentes Keramik-Bracket standard ligating, translucent ceramic bracket
	7	Betaflex Betaflex Titan Drähte und Bögen Betaflex titanium wires and archwires
	10	FORESTANIT® Laborrollen rund, nickelfreier Draht Laboratory coils round, nickel free wires
	10	Titanium screws Universal Dehnschraube wie 100-2000 aus Titan Universal expansion screw as 100-2000 made of titanium

Ni-Free* Produkte: Bukkalröhrchen zum Kleben







Ni-Free* Products: Buccal tubes for direct bonding

*Nickel free





Maxillary	Tooth	Torque	Angulation	distal Offset	Slot	on Pad (10 pcs.)	
						right	left
 Comfort Line occlusal headgear tube convertible		-14°	-	14°	.018" x .028"	741M0704	740M0704
					.022" x .028"	741M0702	740M0702

Mandibular

 Comfort Line convertible		-30°	-	4°	.018" x .028"	741M1704	740M1704
					.022" x .028"	741M1702	740M1702
 Comfort Line convertible		-20°	-	0°	.022" x .028"	728M1702	727M1702
					.018" x .028"	741M1804	740M1804
		-30°	-	4°	.022" x .028"	741M1802	740M1802

Comfort Line 3D Bukkalröhrchen sind die neueste Generation unserer bewährten Klassiker mit optimierter Klebekraft bei kleinerem Pad und sind darüber hinaus noch garantiert nickelfrei. Bitte beachten Sie dazu das Kapitel 6.

Comfort Line 3D buccal tubes are the newest generation of our proven classics providing optimised bonding strength via an anatomically shaped, smaller pad and are also nickel free. Please note chapter 6.

	Identification No.	Description
	1.015 / 3.001	BioQuick® Brackets
	1.001 / 1.000 / 1.004	2D® Lingual Brackets

Stähle*
Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19,5	–	8.0-10.5	≤ 0.045	≤ 0.03	–	Rest
1.001		1.4303	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.0	–	11.0-13.0	≤ 0.045	≤ 0.03	–	
1.004		1.4401	≤ 0.07	≤ 1.0	≤ 2.0	16.5-18.5	2.0-2.5	10.0-13.5	≤ 0.045	≤ 0.03	–	
1.015		X15 CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-17.5	3.0-3.5	≤ 0.1	–	–	N 0.75-0.90	

*Analysis in weight %

Sonstige edelmetallfreie Legierungen*
Non precious metal alloys*




Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.001	CoCr alloy	–	14-16	Rest	1.0-3.0	19-21	6-8	–	–	≤ 1.2	≤ 0.30	38-42	–	–	–	–	–	Be 0.01-0.09

*Analysis in weight %

¹Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.
¹The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

¹ KFO-Werkstoffliste – Kapitel 4¹ Analysis of materials – Chapter 4

4

	Identification No.	Description
	1.015	Sprint® II / Mini Sprint® II / Micro Sprint® Brackets
	1.002 / 1.000 / 1.004 / 2.200	Brackets Mini-Mono® on pad
	1.002	Brackets for welding

Stähle*

Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.5	–	8.0-10.5	≤ 0.045	≤ 0.03	–	Rest
1.002		1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	
1.004		1.4401	≤ 0.07	≤ 1.0	≤ 2.0	16.5-18.5	2.0-2.5	10.0-13.5	≤ 0.045	≤ 0.03	–	
1.015		X15 CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-17.5	3.0-3.5	≤ 0.1	–	–	N 0.75-0.90	

*Analysis in weight %




Kupfer- und Edelmetall-Legierungen*

Copper and precious metal alloys*

Ident. No.	Material	Number	Ag	Cu	Ni	Pb	Zn	Fe	Mn	Sn	Sb	Al	Others
2.200	Silver solder	2.5153 L-Ag75	74-76	Rest	–	≤ 0.02	2.0-4.0	–	–	–	–	≤ 0.005	≤ 0.1

*Analysis in weight %

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

	Identification No.	Description
	5.000 / 3.001	QuicKlear® III Brackets
	5.000 / 4.901 / 4.902	TruKlear® Brackets
	5.000	GLAM® Brackets

Sonstige edelmetallfreie Legierungen*

Non precious metal alloys*

Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.001	CoCr alloy	–	14-16	Rest	1.0-3.0	19-21	6-8	–	–	–	≤ 0.30 Rest	38-42	–	–	–	–	–	Be 0.01-0.09

*Analysis in weight %

Kunststoffe

Plastics

Identification No.	Material	Abbreviation
4.901	Polyether ether ketone	PEEK
4.902	Polyphthalamide	PPA

Keramik*

Ceramics*

Identification No.	Material	Number	Al ₂ O ₃	ZnO	MgO	Others
5.000	Alumina	–	99.99	–	–	≤ 0.01










*Analysis in weight %

¹Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

¹ KFO-Werkstoffliste – Kapitel 6¹ Analysis of materials – Chapter 6

6

	Identification No.	Description
	1.001	Bands
	1.000 / 1.001 / 1.002 / 1.004 / 2.200	Buccal tubes on pad conventional
	1.000 / 1.002 / 1.012	Buccal tubes for welding
	1.015	Buccal tubes MIM on pad
	1.015	Ni-Free buccal tubes
	1.002	Lingual attachment
	1.000 / 1.004 / 1.015 / 2.200	Tulip buccal tubes
	1.015	Comfort Line 3D buccal tubes
	1.000 / 1.001 / 1.002 / 1.015	Lingual cleats conventional (until 2023) Lingual cleats MIM

Stähle*

Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.5	–	8.0-10.5	≤ 0.045	≤ 0.03	–	Rest
1.001		1.4303	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.0	–	11.0-13.0	≤ 0.045	≤ 0.03	–	
1.002		1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	
1.004		1.4401	≤ 0.07	≤ 1.0	≤ 2.0	16.5-18.5	2.0-2.5	10.0-13.5	≤ 0.045	≤ 0.03	–	
1.012		AISI 316 L	≤ 0.03	≤ 1.0	≤ 2.0	16.0-18.0	2.0-3.0	10.0-14.0	≤ 0.045	≤ 0.030	–	
1.015		X15CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-17.5	3.0-3.5	≤ 0.1	–	–	N 0.75-0.90	

*Analysis in weight %












Kupfer- und Edelmetall-Legierungen*

Copper and precious metal alloys*

Ident. No.	Material	Number	Ag	Cu	Ni	Pb	Zn	Fe	Mn	Sn	Sb	Al	Others
2.200	Silver solder	2.5153 L-Ag75	74-76	Rest	–	≤ 0.02	2.0-4.0	–	–	–	–	≤ 0.005	≤ 0.1

*Analysis in weight %

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

	Identification No.	Description
	3.200	BioStarter® / BioTorque® / BioLingual®
Code: 	3.200	TitanoI® Budget
	3.200	TitanoI® Low Force / TitanoI® Triple Force / TitanoI® Superelastic
	3.201	DuoForce®
	3.200 + 4.008	TitanoI® Cosmetic / BioCosmetic® coated
 Code: 	3.103	Betaflex
 Code: 	1.003	Steel
 Code: 	1.003	FORESTAFLEX
 Code: 	3.002	FORESTALLOY
	1.002 / 1.003 / 3.200	Special products
	3.103	Nanda BT3 Intursion Arch / Nanda BT3 Beta Titanium
	3.201	Nanda Braided Copper-Nickel-Titanium
	1.013	McLaughlin Bennett 5.0 Stainless Steel Heat Treated
	3.202	McLaughlin Bennett 5.0 Nickel Titanium Heat Activated
	3.103	Roncone Prescription PhysioDynamic System / Beta Titanium
	3.200	Roncone Prescription PhysioDynamic System Ultra Thermal / TitanoI
	3.200	TitanoI® Spee

Stähle*
Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.002	Stainless steel	1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	Rest
1.003		1.4310	≤ 0.15	≤ 2.0	≤ 2.0	16.0-19.0	≤ 0.8	6.0-9.5	≤ 0.045	≤ 0.03	–	
1.013		AISI 304	≤ 0.08	≤ 1.0	≤ 2.0	18.0-20.0	–	8.0-10.5	≤ 0.045	≤ 0.030	–	

*Analysis in weight %

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

¹ KFO-Werkstoffliste – Kapitel 7

¹ Analysis of materials – Chapter 7

7

Sonstige edelmetallfreie Legierungen*

Non precious metal alloys*

Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.002	CoCr alloy	–	–	–	27-31	≤ 1	28-32	4-6	–	–	≤ 1	≤ 0.35	31-35	–	–	–	–	–
3.103	TiMo 11,5 Zr6 SN 4,5 Beta	–	–	0.35	–	–	10-13	–	Rest	–	0.10	–	–	–	≤ 0.2	≤ 0.025	≤ 0.05	Zr 5-7 Sn 4-5
3.200	NiTi alloy	–	50-60	< 0.5	–	–	–	–	Rest	–	< 0.1	–	< 0,1	–	< 0,1	< 0.01	< 0.01	Cu < 6.5
3.201	NiTiCu alloy	–	50-60	< 0.5	–	< 0,4	–	–	Rest	–	< 0,1	–	< 0,1	–	< 0,1	< 0.01	< 0.01	Nb 10-50
3.202	NiTi alloy	–	30-50	1-5	–	< 3	–	–	50-70	–	1-5	–	–	–	–	–	–	Cu 5-10

*Analysis in weight %







Kunststoffe

Plastics

Identification No.	Material	Abbreviation
4.008	Polytetrafluoroethylene	PTFE

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

	Identification No.	Description
	1.000 / 1.001 / 1.003 / 4.012	Facebow
	1.015	Activator tube
	1.000 / 1.003	Activator tube short
	4.009	Ligatures on key ring, retention-elements, separators, elastic chains
	4.200	Elastics non Latex
	4.201	Elastics Latex

Stähle*
Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.002	Stainless steel	1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	Rest
1.003		1.4310	≤ 0.15	≤ 2.0	≤ 2.0	16.0-19.0	≤ 0.8	6.0-9.5	≤ 0.045	≤ 0.03	–	
1.015		X15 CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-15.5	–	≤ 0.1	–	–	N 0.75-0.90	

*Analysis in weight %

Kunststoffe
Plastics

Identification No.	Material	Abbreviation
4.009	Polyurethane	PUR
4.200	Synthetic isoprene rubber	IR
4.201	Natural rubber	NR






¹Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

¹ KFO-Werkstoffliste – Kapitel 9

¹ Analysis of materials – Chapter 9

9

	Identification No.	Description
	3.102	OrthoEasy® Pins / Pal
	1.003	Fixation plates
	3.200 / 1.003 / 3.102	SmartJet™ Tube
	1.002	OrthoEasy® Pal Retaining screw
	1.002	OrthoEasy® Pal Abutment

Stähle* Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.002	Stainless steel	1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	Rest
1.003		1.4310	≤ 0.15	≤ 2.0	≤ 2.0	16.0-19.0	≤ 0.8	6.0-9.5	≤ 0.045	≤ 0.03	–	

*Analysis in weight %

























Sonstige edelmetallfreie Legierungen* Non precious metal alloys*

Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.102	TiAl6V4	3.7165	–	≤ 0.30	–	–	–	–	Rest	–	≤ 0.08	–	5,5-6.75	–	≤ 0.20	≤ 0.025	≤ 0.05	V 3.5-4.5
3.200	NiTi alloy	–	50-60	< 0.5	–	–	–	–	Rest	–	< 0.1	–	< 0,1	–	< 0,1	< 0.01	< 0.01	–

*Analysis in weight %

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

	Identification No.	Description
	1.000 / 1.002	Standard Expansion Screws
	1.002 / 1.003 / 3.200	100M2015 100M2016
	1.000 / 1.002	105-1320 105-1310 139-2615 165-1312 165-1412 169-2622
	1.002 / 1.003	109-0410 109-0610 109-0810 136-1711 139-1311 179-1317 139-2215 165-1312 165-1412 175-1318 179-1117 179-1119
	1.002 / 3.001	169S1239
	1.000 / 1.002 / 1.003 / 1.015 / 3.200	169M1343
	3.104 / 3.102	Expansion screws Titanium
	1.003	FORESTANIT® hard/spring hard
	1.006	FORESTANIT® Ni-free
	–	TRACK® A (PET-G)
	–	TRACK® B (TPU/PET-G)
	–	TRACK® C (PE)
	–	TRACK® E (EVA)
	–	TRACK® bleach (EVA)
	1.000 / 1.002 / 1.003 / 1.015	SARA®
	1.002 / 1.003	Bite Jumping Screw
	1.015 / 1.002 / 1.014	Functional Mandibular Advancer
	1.000 / 1.002 / 1.003 / 4.009	Easy-Fit Jumper
	1.000 / 1.002	Appliance for advancement of the mandible
	1.000 / 1.002 / 1.003 / 3.001	Snap Lock Expander
	1.002 / 1.003	Palatal Split Screws
	1.002 / 1.003	Slim-Line Expander
	1.002 / 1.003 / 3.200	Memory Palatal Split Screws
	1.000 / 1.002 / 1.003 / 3.001	Frog II appliance

¹Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.

¹The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

¹ KFO-Werkstoffliste – Kapitel 10¹ Analysis of materials – Chapter 10

10

Stähle*

Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19,5	–	8.0-10.5	≤ 0.045	≤ 0.03	–	Rest
1.001		1.4303	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.0	–	11.0-13.0	≤ 0.045	≤ 0.03	–	
1.002		1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	
1.003		1.4310	≤ 0.15	≤ 2.0	≤ 2.0	16.0-19.0	≤ 0.8	6.0-9.5	≤ 0.045	≤ 0.03	–	
1.006		1.4456	≤ 0.01	≤ 1.0	10-15	16-20	1.8-3.5	≤ 0.3	≤ 0.05	≤ 0.05	V ≤ 0.2 N 0.7-1.0	
1.014		AISI 420F	≤ 0.03	≤ 1.25	≤ 1.25	12.0-14.0	≤ 0.6	1.5	≤ 0.06	≤ 0.15	–	
1.015		X15 CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-17.5	3.0-3.5	≤ 0.1	–	–	N 0.75-0.90	

*Analysis in weight %

Sonstige edelmetallfreie Legierungen*

Non precious metal alloys*

Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.001	CoCr alloy	–	14-16	–	1.0-3.0	19-21	6-8	–	–	–	≤ 0.30	38-42	–	–	–	–	–	Be 0.01-0.09
3.102	TiAl6V4	3.7165	–	≤ 0.30	–	–	–	–	Rest	–	≤ 0.08	–	5,5-6.75	–	≤ 0.20	≤ 0.025	≤ 0.05	V 3.5-4.5
3.104	Titan Grade 2	3.7035	–	< 0.3	–	–	–	–	Rest	–	< 0.08	–	–	–	< 0.25	< 0.015	< 0.03	–

*Analysis in weight %

Kunststoffe

Plastics

Identification No.	Material	Abbreviation
4.009	Polyurethane	PUR

¹ Die Strukturierung der Werkstofflisten in Kapitel entspricht dem FORESTADENT Katalog Nr.37.¹ The structuring of the "analysis of material" lists in chapters corresponds to FORESTADENT catalogue no.37.

KFO-Werkstoffliste – Stähle*

Analysis of materials – Steels*

Ident. No.	Material	Number	C	Si	Mn	Cr	Mo	Ni	P	S	Others	Fe
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.5	–	8.0-10.5	≤ 0.045	≤ 0.03	–	Rest
1.001		1.4303	≤ 0.07	≤ 1.0	≤ 2.0	17.0-19.0	–	11.0-13.0	≤ 0.045	≤ 0.03	–	
1.002		1.4305	≤ 0.12	≤ 1.0	≤ 2.0	17.0-19.0	–	8.0-10.0	≤ 0.06	0.15-0.35	Cu ≤ 1.0	
1.003		1.4310	≤ 0.15	≤ 2.0	≤ 2.0	16.0-19.0	≤ 0.8	6.0-9.5	≤ 0.045	≤ 0.03	–	
1.004		1.4401	≤ 0.07	≤ 1.0	≤ 2.0	16.5-18.5	2.0-2.5	10.0-13.5	≤ 0.045	≤ 0.03	–	
1.005		1.4404	≤ 0.03	≤ 1.0	≤ 2.0	16.5-18.5	2.0-2.5	11.0-14.0	≤ 0.045	≤ 0.03	–	
1.006		1.4456	≤ 0.01	≤ 1.0	10-15	16-20	1.8-3.5	≤ 0.3	≤ 0.05	≤ 0.05	V ≤ 0.2 N 0.7-1.0	
1.007		1.4460	≤ 0.05	≤ 1.0	≤ 2.0	25.0-28.0	1.3-2.0	4.5-6.0	≤ 0.045	≤ 0.03	N 0.05-0.20	
1.008		1.4541	≤ 0.08	≤ 1.0	≤ 2.0	17.0-19.0	–	9.0-12.0	≤ 0.045	≤ 0.03	Ti ≥ (5 x % C) ≤ 0.80	
1.009		1.4542	≤ 0.07	≤ 1.0	≤ 1.0	15.0-17.0	–	3.0-5.0	≤ 0.045	≤ 0.03	Cu 3.0-5.0 Nb 0.15-0.45	
1.010		1.4435	≤ 0.03	≤ 1.0	≤ 2.0	17.0-19.0	2.5-3.0	12.5-15.0	≤ 0.045	≤ 0.025	–	
1.011		1.4441	≤ 0.03	≤ 1.0	≤ 2.0	17.0-19.0	2.5-3.2	13.0-15.5	≤ 0.025	≤ 0.010	N ≤ 0.10 Cu ≤ 0.50	
1.012		AISI 316 L	≤ 0.03	≤ 1.0	≤ 2.0	16.0-18.0	2.0-3.0	10.0-14.0	≤ 0.045	≤ 0.030	–	
1.013		AISI 304	≤ 0.08	≤ 1.0	≤ 2.0	18.0-20.0	–	8.0-10.5	≤ 0.045	≤ 0.030	–	
1.014		AISI 420F	≤ 0.03	≤ 1.25	≤ 1.25	12.0-14.0	≤ 0.6	1.5	≤ 0.06	≤ 0.15	–	
1.015		X15 CrMnMoN 17 11 3	≤ 0.2	≤ 1.0	10-12	16.5-17.5	3.0-3.5	≤ 0.1	–	–	N 0.75-0.90	
1.016	1.4197	0.20-0.26	≤ 1.0	≤ 2.0	12.5-14.0	1.10-1.50	0.75-1.50	≤ 0.04	≤ 0.03	–		

*Analysis in weight %

KFO-Werkstoffliste – Kupfer- und Edelmetall-Legierungen*

Analysis of materials – Copper and precious metal alloys*

Ident. No.	Material	Number	Ag	Cu	Ni	Pb	Zn	Fe	Mn	Sn	Sb	Al	Others
2.001	Nickel silver	2.0780	–	56-58	11-13	0.3-1.5	26-33	≤ 0.5	≤ 0.5	≤ 0.3	–	–	≤ 0.1
2.100	Brass	2.0265	–	69,0-71,0	≤ 0.3	≤ 0.05	Rest	≤ 0.05	–	≤ 0.1	–	≤ 0.02	≤ 0.1
2.200	Silver solder	2.5153 L-Ag75	74-76	Rest	–	≤ 0.02	2.0-4.0	–	–	–	–	≤ 0.005	≤ 0.1
2.201		2.5147 L-Ag44	43-45	29-31	–	≤ 0.02	Rest	–	–	–	–	≤ 0.005	≤ 0.1
2.202		2.5159 L-Ag55Sn	54-57	20-23	–	≤ 0.02	Rest	–	–	2.0-5.0	–	≤ 0.005	≤ 0.1
2.203		2.5151 L-Ag72	71-73	Rest	–	≤ 0.02	–	–	–	–	–	≤ 0.005	≤ 0.1
2.204		–	43-46	18-22	–	–	6-10	–	–	2.0-6.0	–	–	≤ 0.3
2.205		–	57-61	15-18	–	–	Rest	–	–	–	–	–	≤ 0.3
2.206		–	20-70	3-45	–	–	1-35	–	–	0,5-30	–	–	–
2.300		Gold solder	38,5-39,5	Rest	–	–	–	–	–	–	–	–	–

*Analysis in weight %

KFO-Werkstoffliste – Sonstige edelmetallfreie Legierungen*

Analysis of materials – Non precious metal alloy*

Ident. No.	Material	Number	Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
3.000		–	19-23	Rest 4-6	≤ 1.0	18-22	3-5	01-2.5 01-2.0	≤ 0.5	≤ 0.30	Rest	–	≤ 0.01	–	–	–	–	–
3.001	CoCr alloy	–	14-16	Rest	1.0-3.0	19-21	6-8	–	–	≤ 1.2	≤ 0.30	38-42	–	–	–	–	–	< 0,1
3.002		–	–	27-31	≤ 1	28-32	4-6	–	–	≤ 1	≤ 0.35	31-35	–	–	–	–	–	–
3.100	Titanium	3.7025	–	≤ 0.20	–	–	–	–	Rest	–	≤ 0.08	–	–	–	≤ 0.10	≤ 0.013	≤ 0.05	–
3.101		3.7065	–	≤ 0.35	–	–	–	–	Rest	–	≤ 0.10	–	–	–	≤ 0.30	≤ 0.013	≤ 0.07	–
3.102	TiAl6V4	3.7165	–	≤ 0.30	–	–	–	–	Rest	–	≤ 0.08	–	5,5- 6.75	–	≤ 0.20	≤ 0.025	≤ 0.05	V 3.5-4.5
3.103	TiMo 11,5 Zr6 SN 4,5 Beta	–	–	0.35	–	–	10-13	–	Rest	–	0.10	–	–	–	≤ 0.2	≤ 0.025	≤ 0.05	Zr 5-7 Sn 4-5
3.104	Titan Grade 2	3.7035	–	< 0.3	–	–	–	–	Rest	–	< 0.08	–	–	–	< 0.25	< 0.015	< 0.03	–
3.200	NiTi alloy	–	50-60	< 0.5	–	–	–	–	Rest	–	< 0,1	–	< 0,1	–	< 0,1	< 0.01	< 0.01	–
3.201	NiTiCu alloy	–	50-60	< 0.5	–	< 0,4	–	–	Rest	–	< 0,1	–	< 0,1	–	< 0,1	< 0.01	< 0.01	Cu < 6.5
3.202	NiTi alloy	–	30-50	1-5	–	< 3	–	–	50-70	–	1-5	–	–	–	–	–	–	Nb 10-50 Cu 5-10

*Analysis in weight %

KFO-Werkstoffliste – Kunststoffe

Analysis of materials – Plastics

Identification No.	Material	Abbreviation
4.000	Epoxide	EP
4.001	Polyamide	PA
4.002	Polycarbonate	PC
4.003	Polyethylene with high density	PE-HD
4.004	Polyethylene with low density	PE-LD
4.005	Polymethyl-methacrylate	PMMA
4.006	Polypropylene	PP
4.007	Polystyrene	PS
4.008	Polytetrafluoroethylene	PTFE
4.009	Polyurethane	PUR
4.010	Polyvinyl chloride	PVC
4.012	Polyoxymethylene	POM
4.100	Acrylonitrile-butadiene-styrene	ABS
4.101	Ethylene vinyl acetate	EVA
4.200	Synthetic isoprene rubber	IR
4.201	Natural rubber	NR
4.202	Silicone rubber	Q
4.203	Silicone	SI
4.901	Polyether ether ketone	PEEK
4.902	Polyphtalamide	PPA

KFO-Werkstoffliste – Keramik*

Analysis of materials – Ceramics*

Identification No.	Material	Number	Al ₂ O ₃	ZnO	MgO	Others
5.000	Alumina	–	99.99	–	–	≤ 0.01

*Analysis in weight %

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