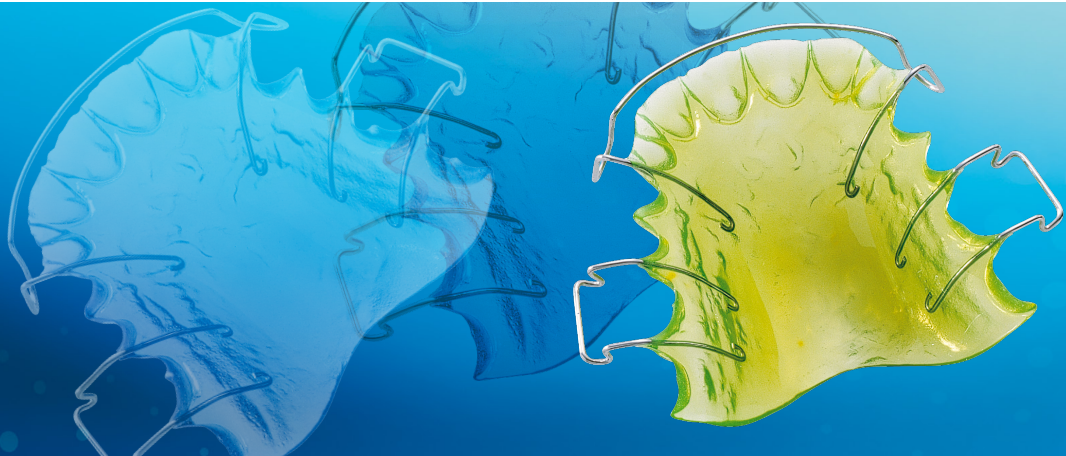




Materials for orthodontic products

As of February 2018

Product groups	Product	Identification no.*
tomas® anchorage system	tomas®-pin	3.102
	tomas®-abutment universal	1.005
	tomas®-abutment tubes	1.000, 1.005
	tomas®-abutment wires	1.000, 1.005, 3.000
	tomas®-abutment plain	1.000, 1.005
	tomas®-abutment EP	1.000
	tomas®-transfer cap	4.006
	tomas®-laboratory pin EP / tomas®-laboratory pin SD	1.002
	tomas®-aligner hook	1.005
	tomas®-coil spring / tomas®-Nikodem spring / tomas®-compression spring	3.200
	tomas®-uprighting spring	1.000, 1.013, 3.200
	tomas®-stop screw	1.000, 1.002
	tomas®-cross tube	1.000
	tomas®-power arm square/round	1.003, 1.005
	tomas®-crimp hook	1.005
	tomas®-slotted stops	1.013
	tomas®-hook / tomas®-T-wire	1.003
	tomas®-power chain Kunststoffkette	4.009
amda® distalization appliance	amda® telescope	1.000, 1.002, 1.003
	amda® connector	1.003
	amda® palatal arch	1.000
discovery® delight lingual system	discovery® delight lingual brackets / discovery® delight lingual tubes	1.005
Self-ligating brackets	discovery® sl / discovery® sl 2.0	1.003, 1.009, 3.001
	dynamique® m	1.009 (body), 3.300 (clip)
	dynamique® c	5.000 (body), 3.300 (clip), rhodium coating
Metal brackets	discovery® / discovery® smart	1.005
	topic	3.003
	equilibrium® / equilibrium® 2 / equilibrium® mini	1.005
	equilibrium® / equilibrium® 2 with hook	1.001, 1.005
	equilibrium® mini with hook	1.000, 1.005
	equilibrium® ti	3.104
	equilibrium® ti with hook	3.102, 3.104
Aesthetic brackets	Fascination® / Fascination® 2	5.000
	Jewels	5.000
	discovery® pearl	5.000
	Elegance®	1.000, 4.002 glass-fiber reinforced
Bracket accessories	Titanium button with chain	3.100, 3.101
	Lingual button for bonding technique	1.000, 1.001, 1.002
	lingual double hook for bonding technique	1.000, 1.001, 1.008
	Mesh bases for bonding technique	1.005
	Mesh bases for buccal tubes for bonding technique	1.000, 1.001
	Gauze	1.000
Buccal tubes w. h. = with hook w. t. = with tube w. h. a. t. = with hook and tube	Ortho-Cast / Ortho-Cast w. h. / Ortho-Cast w. h. a. t. / Ortho-Cast M-Series	1.005
	Ortho-Cast w. h. and central tube	1.000, 1.005
	Ortho-Cast with larg base / Ortho-Cast w. h. and larg base	1.000, 1.001, 1.005
	Ortho-Cast w. h. a. t. occlusal/gingival	1.005, 1.008
	Ortho / Ortho w. t.	1.000, 1.002
	Ortho w. h. / Ortho w. h. a. t.	1.000, 1.001, 1.002
	Ortho for bonding technique / Ortho w. t. occlusal for bonding technique	1.000, 1.001, 1.002
	Ortho with mesial/distal hook and central tube	1.000, 1.002, 1.005
	Lingual/palatal sheaths	1.008
	Lingual/palatal sheaths with mesial/distal hooks	1.000, 1.008
	Lingual/palatal sheaths with distal hooks	1.002, 1.008
	Button	1.002
	Band seating lug	1.005
	Double hook / Hook with seating lug	1.008

Product groups	Product	Identification no.*
Buccal tubes w. h. = with hook w. t. = with tube w. h. a. t. = with hook and tube	Button hook	1.001
	Ortho-Cast mini / Ortho-Cast sl	1.005
	Standard with hook	1.000, 1.001, 1.002
	Standard	1.001
	Ortho-Cast NF	3.003
	rematitan®	3.100, 3.101
	rematitan® with hook	3.100, 3.101, 3.102
	Insert-Adapter	1.003
Bands	dentaform® Snap	1.008
	dentaform®	1.001
	Standard bicuspid and cuspid bands	1.001
	Standard first and second molar bands	1.008
	Band material and matrix band on rolls	1.001
Arches	remanium® ideal arch	1.012 or 1.013
	Equire preformed ideal arch	1.012 or 1.013
	dentaform® ideal arch	1.012 or 1.013
	Noninium® ideal arch	REF XXX-XXX-00 / 1.006
		REF XXX-XXX-10 / 1.014
	Noninium® White ideal arch	1.006, 4.008
	Tensic® ideal arch	3.200
	Equire thermo-active preformed ideal arch	3.200
	Tensic® White ideal arch	3.200, 4.008
	rematitan® sl ideal arch	3.200
	rematitan® "LITE" arch / ideal arch / lingual arch	3.200
	rema Spee® retraction arch	3.200
	rematitan® "LITE" White ideal arch	3.200, 4.008
	remaloy® ideal arch	3.000
	rematitan® SPECIAL ideal arch	3.103
	Translucent ideal pearl arches	4.005 + fiber-glass
Wires	remanium®	1.003 o. 1.013
	dentaform®, round, 3-strand twisted	1.003
	dentaform®, 6-strand "co-axial"	1.012 or 1.013
	Noninium® wire on coils / straight wire	REF XXX-XXX-00 / 1.006
		REF XXX-XXX-10 / 1.014
	remaloy® straight wire	3.000
	rematitan® flat retainer wire	1.013
	rematitan® SPECIAL straight wire	3.103
	rematitan® "LITE"	3.200
	Titanium retainer wire, grade 1	3.100
	Titanium retainer wire, grade 5	3.102
	Gold retainer wire	2.301
Wires, arches Accessories	remanium® ligature wire	1.005
	remanium® preformed ligatures, short	1.005
	remanium® preformed ligatures, long	1.012 or 1.013
	remanium® Kobayashi ligatures	1.011 or 1.013
	Ligatures White, Kobayashi White ligatures	3.201, 4.008
	remanium® tension springs / compression springs	1.003
	rematitan® "LITE" tension springs / compression springs	3.200
	Cuspid retraction springs	1.000, 1.003
	remanium® lingual retainer	1.011, 1.013
	Titanium lingual retainer	3.101
	Jaw fracture splint	1.000
	Sliding tubes, round with hook	1.000, 1.001
	Sliding tubes, rectangular with hook	1.005
	Sliding tubes, rectangular with wire	1.003 + 1.005
	Cross tube, rectangular tube	1.000

Product groups	Product	Identification no.*
Wires, arches Accessories	Stop tube	1.013
	Noninium® standard labial arches	REF XXX-XXX-00 / 1.006
		REF XXX-XXX-01 / 1.014
	Noninium® Adams clasps / triangular clasps / arrow clasps	REF XXX-XXX-00 / 1.006
		REF XXX-XXX-01 / 1.014
	Noninium® ball retainer clasps	REF XXX-XXX-01 / 1.006
		REF XXX-XXX-02 / 1.014
	remanium® ball retainer clasp / remanium® arrow clasp	1.001
	Guide pins acc. to Hinz	1.012 or 1.013
	Guide pins acc. to G. Müller®	1.003
	Lingual bar	1.003
	Stainless steel tubes	1.000
	Plastic sleeving	4.009
	Brass wire	2.100
	remanium® Goshgarian palatal bars	1.003
	remanium® Quad Helix	1.013
	Orthorama® palatal arches / Lingual arches / Sectional arches / Multi-Action	3.000
	Orthorama® transfer jigs	1.000
	Orthorama® retention rings	1.001 + 1.008
	Grid strengtheners stainless steel	1.000
	Grid strengtheners gold-plated	1.000 gold-plated (24 carat)
Intraoral/extraoral	Metal clip for safety modules	1.003
	Delaire, face mask	1.003, 4.100, suede
	Noninium® facebow, medium	1.006, 4.001
	Standard facebow, with stop loops	1.000, 1.003, 4.001
	Standard facebow, with stop loops, with canine hook	1.000, 1.001, 1.003, 2.201, 4.001
	Chin cap	1.002, 1.003, 4.001
	Chin cap liner	4.009, polyester
	J-Hooks / J-Hooks for Hickham headgear	1.011, 1.013
	Lip bumper	1.003, 3.000, 4.003
	Stop tube	1.000
	Stop screws	1.002
	Activator tubes	1.000, 1.001
	Oral screen Ulmer Modell	4.009
	Face Former	4.202
	OrthoSafe sports guard	4.101
	Elastics, intraoral, latex	4.201 **
	Elastics, intraoral, non-latex	Thermoplastic acrylic**
	Elastics, extraoral, latex	4.201 **
	Elastic ligature	4.009
	Elasto-Force ligature thread	4.009 **
	Dentalastics® rotation wedge / plastic ligatures / separators / Personal ligatures	4.009
	Elasto-Force, plastic chains	4.009
Class II appliances	SUS ² telescope rod, assembled	1.002, 1.003
	SUS ² telescope rod	1.003
	SUS ² arch adapter / fixing screw	1.002
	SUS ² telescope element	1.000, 1.003
	SUS ² turbo spring	1.003
	SUS ² compression spring (Nickel titanium)	3.200
	SUS ² ball retainer clasp	1.000
	Herbst TS set	1.001, 1.002, 1.003, 1.009
	Herbst I set, Herbst II set	1.002, 1.009
	Herbst IV set	1.000, 1.002, 1.003
	Herbst hexagon socket screws / Slotted screws	1.002
	Herbst base / pivot	1.002

Product groups	Product	Identification no.*
Class II appliances	Herbst telescopic tubes	1.009
	Herbst telescopic tubes with ball joint	1.000, 1.002, 1.003
	Herbst telescopic rod / Spacer rings	1.002
	Spacer rings, crimpable	1.002
Expansion screws	rematitan® expansion screw Medium	3.101, 3.102, 4.006
	Expansion screws, sectional screw Medium, trapezoidal expansion screw	1.002, 1.003, 4.006
	Sectional screw Mini, retraction screw	1.002, 1.003
	Three dimensional screw acc. to Bertoni / acc. to Steiner	1.002, 1.003
	Fan-type expansion screw	1.000, 1.002
	Mandibular bow screw acc. to Müller	1.002, 1.003, 4.006
	Guide ridge for flexible forward thrust double plate system acc. to Schaneng	1.002, 1.003
	Expansion screw for split activator	1.002, 1.003
	Expansion screw for progenia activator acc. to Weise	1.002
	Piston spring screw, positioning screws, serrated housing nut	1.002
	Variety expansion screw / Variety SP expansion screw	1.000, 1.002, 1.003
	Variety click / Variety click SP	1.000, 1.002, 1.003
	Titan hyrax® Maxi	3.102, 3.104
	Titanium direct bond pads	3.100
	rematitan® straight wire, round	3.100
	hyrax® / hyrax® click	1.000, 1.002, 1.003
	Arrows to indicate the opening direction	4.006
Expansion screws accessories	Expansion screw key	1.003
	Safety key	1.003, 4.100

***Note:** If several materials are listed, this means that the product consists of all these materials.

** Also contains traces of other elements. Please ask if you have any queries.

1. Stainless steel

Composition in weight %

Identification No.	Material		C	Si	Mn	Cr	Mo	Ni	P	S	Other	Fe
	Designation	Number (DIN, AISI)*										
1.000	Stainless steel	1.4301	≤ 0.07	≤ 1.0	≤ 2.0	17.0–19.5	—	8.0–10.5	≤ 0.045	≤ 0.03	N ≤ 0.11	Residue
1.001	Stainless steel	1.4303	≤ 0.06	≤ 1.0	≤ 2.0	17.0–19.0	—	11.0–13.0	≤ 0.045	≤ 0.03	N ≤ 0.11	Residue
1,002	Stainless steel	1.4305	≤ 0.10	≤ 1.0	≤ 2.0	17.0–19.0	—	8.0–10.0	≤ 0.045	0.15–0.35	N ≤ 0.11/ Cu ≤ 1,0	Residue
1.003	Stainless steel (remanium®)	1.4310	0.05–0.15	≤ 2.0	≤ 2.0	16.0–19.0	≤ 0.8	6.0–9.5	≤ 0.045	≤ 0.015	N ≤ 0.11	Residue
1.004	Stainless steel	1.4401	≤ 0.07	≤ 1.0	≤ 2.0	16.5–18.5	2.0–2.5	10.0–13.0	≤ 0.045	≤ 0.03	N ≤ 0.11	Residue
1.005	Stainless steel	1.4404	≤ 0.03	≤ 1.0	≤ 2.0	16.5–18.5	2.0–2.5	10.0–13.0	≤ 0.045	≤ 0.03	N ≤ 0.11	Residue
1.006	Stainless steel (Noninium®)	1.4456	≤ 0.1	≤ 1.0	16.0–20.0	16.0–20.0	1.8–2.5	≤ 0.2	≤ 0.05	≤ 0.05	V ≤ 0.2 N 0.7–1.0	Residue
1.007	Stainless steel	1.4460	≤ 0.05	≤ 1.0	≤ 2.0	25.0–28.0	1.3–2.0	4.5–6.5	≤ 0.035	≤ 0.3	N 0.05–0.20	Residue
1.008	Stainless steel	1.4541	≤ 0.08	≤ 1.0	≤ 2.0	17.0–19.0	—	9.0–12.0	≤ 0.045	≤ 0.3	Ti 5 x C bis 0.7	Residue
1.009	Stainless steel	1.4542	≤ 0.07	≤ 0.7	≤ 1.5	15.0–17.0	≤ 0.6	3.0–5.0	≤ 0.040	≤ 0.03	Cu 3.0–5.0 Nb 5 x C bis 0.45	Residue
1.010	Stainless steel	1.4435	≤ 0.03	≤ 1.0	≤ 2.0	17.0–19.0	2.5–3.0	12.5–15.0	≤ 0.045	≤ 0.025	N ≤ 0.11	Residue
1.011	Stainless steel	AISI 302	≤ 0.15	≤ 1.0	≤ 2.0	17.0–19.0	—	8.0–10.0	≤ 0.045	≤ 0.03	—	Residue
1.012	Stainless steel (dentaflex®)	AISI 302 B	≤ 0.15	2.0–3.0	≤ 2.0	17.0–19.0	—	8.0–10.0	≤ 0.045	≤ 0.03	—	Residue
1.013	Stainless steel (remanium®)	AISI 304	≤ 0.08	≤ 1.0	≤ 2.0	18.0–20.0	—	8.0–10.5	≤ 0.045	≤ 0.03	—	Residue
1.014	Stainless steel (Noninium®)	1.3808	0.15–0.25	0.2–0.6	9.5–12.5	16.5–18.0	2.7–3.7	0.05	0.02	0.01	Cu 0.25 N 0.45–0.55	Residue

***Note:** Stainless steel with foreign standards which correspond to the DIN material numbers are also acceptable.

2. Copper and precious metal alloys

Composition in weight %

[illegible]

3. Non-precious metal alloys

Composition in weight %

Identification No.	Material		Ni	Fe	Mn	Cr	Mo	W	Ti	Si	C	Co	Al	S	O	H	N	Others
	Designation	Number (DIN)*																
3.000	CoCr alloy (remaloy®)	—	19–23	4–6	≤ 1.0	18–22	3–5	3–5	0.1–2.0	≤ 0.5	≤ 0.03	Residue	—	≤ 0.1	—	—	—	—
3.001	CoCr alloys (Elgiloy®)	—	14–16	Residue	1.0–3.0	19–21	6–8	—	—	—	≤ 0.3	38–42	—	—	—	—	—	Be 0.01–0.09
3.002	CoCr alloy	—	—	27–31	≤ 1.0	28–32	4–6	—	—	≤ 0.1	≤ 0.35	31–35	—	—	—	—	—	—
3.003	CoCr alloy (topic, Ortho-Cast NF)	—	≤ 0.1	—	≤ 0.3	28–32	4–6	—	—	≤ 1.0	≤ 1.0	Residue	—	—	—	—	≤ 0.3	—
3.100	titanium	3.7025	—	≤ 0.15	—	—	—	—	Residue	—	≤ 0.06	—	—	—	≤ 0.12	≤ 0.013	≤ 0.05	—
3.101	titanium	3.7065	—	≤ 0.3	—	—	—	—	Residue	—	≤ 0.06	—	—	—	≤ 0.35	≤ 0.013	≤ 0.05	—
3.102	TiAl6V4	3.7165	—	≤ 0.3	—	—	—	—	Residue	—	≤ 0.08	—	5.5–6.75	—	≤ 0.2	≤ 0.025	≤ 0.05	V 3.5–4.5
3.103	TiMo alloy (rematitan® Special)	—	—	—	—	—	11.5	—	78	—	—	—	—	—	—	—	—	Zr ≤ 6 Sn ≤ 4.5
3.104	Titanium (equilibrium® ti)	3.7035	—	≤ 0.2	—	—	—	—	Residue	—	≤ 0.06	—	—	—	≤ 0.18	≤ 0.013	≤ 0.05	—
3.200	NiTi alloy (rematitan® LITE) (Tensic®) (Equire)	—	50–60	≤ 0.5	—	—	—	—	Residue	—	≤ 0.1	—	≤ 0.1	—	≤ 0.1	≤ 0.01	≤ 0.01	—
3.201	NiTiCu alloy	—	50–60	≤ 0.5	—	—	—	—	Residue	—	≤ 0.1	—	≤ 0.1	—	≤ 0.1	≤ 0.017	≤ 0.01	Cu < 1.0
3.300	NiCoCrMo alloy	MP35N®	33–37	≤ 1	≤ 0.15	19–21	9–10.5	—	≤ 1	≤ 0.15	≤ 0.025	Residue	—	≤ 0.01	—	—	—	P ≤ 0.015 B ≤ 0.015

4. Plastics

5. Ceramic materials

Composition in weight %

Identification No.	Material	
	Designation	Symbol (DIN)*
4.000	Epoxy	EP
4.001	Polyamide	PA
4.002	Polycarbonate	PC
4.003	High-density polyethylene	PE-HD
4.004	Low-density polyethylene	PE-LD
4.005	Polymethylmethacrylate	PMMA
4.006	Polypropylene	PP
4.007	Polystyrene	PS
4.008	Polytetrafluorethylene	PTFE
4.009	Polyurethane	PUR
4.010	Polyvinylchloride	PVC
4.011	Polyvinylsiloxane	
4.100	Acrylonitrile butadiene styrene	ABS
4.101	Ethylene vinylacetate	EVA
4.200	Synthetic isoprene rubber	IR
4.201	Natural rubber	NR
4.202	Silicone rubber	Q
4.203	Silicone	SI

Identification No.	Material		Al ₂ O ₃	ZnO	MgO	Other
	Designation	Number (DIN)*				
5.000	Aluminum oxide	—	99.99	—	—	≤ 0.01
5.001	Band cement	—	—	80–86	6–10	≤ 10

Alloy elements

Ag	silver	O	oxygen
Al	aluminum	P	phosphorus
Au	gold	Pb	lead
Be	beryllium	Pt	platinum
C	carbon	Rh	rhodium
Cr	chromium	S	sulphur
Cu	copper	Sb	antimony
Co	cobalt	Si	silicon
Fe	iron	Sn	tin
H	hydrogen	Ti	titanium
Mn	manganese	V	vanadium
Mo	molybdenum	W	tungsten
N	nitrogen	Zn	zinc
Nb	niobium	Zr	zirconia
Ni	nickel		

Note: The materials listed in tables 1– 4 enable easy identification of chemical compositions. Not all the listed materials are used by Dentaaurum. You can find the most recent materials list at www.dentaaurum.com.

Date of information: February 2018