Ormco
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Material-Compositions Ormco -Part 2

Product:	Alloy	Chemical Composition (wt. %) (Note: Single values are maximum values unless otherwise indicated							Magnetic
	AISI Type	Carbon C	Manganese Mn	Silicone Si	Chromium Cr	Nickel Ni	Other	Iron Fe	
Archwires and Springs:									
Archwires (CuNiTi)	Cu/Ni/Ti	0,06			0,20	49,10	Cu 5,0, Ti		No
Archwires (NiTi)		0,06			0,20	54,90	Ti Balance		No
Archwires (TMA)		0,10					Mo10,0;Ti13,0; Zr 4,5 – 7,5; Sn 3,75 - 5,25		No
Stainless Steel:									
Archwires, Coil Springs, Vertical slot Auxiliaries (Uprighting Springs, Rotation Springs)	302 / or 304	0,15 0,08	2,00 2,00	1,00 1,00	17,0 – 19,0 18,0 – 20,0	8,0 – 10,0 8,0 – 10,5	P 0,045, S 0,03 P 0,045, S 0,03	Balance Balance	Slight Slight
Power Pins	301 / or 302 / or 304	0,15 0,15 0,08	2,00 2,00 2,00	1,00 1,00 1,00	16,0 – 18,0 17,0 – 19,0 18,0 – 20,0	6,0 – 8,0 8,0 – 10,0 8,0 – 10,5	P 0,045, S 0,03 P 0,045, S 0,03 P 0,045, S 0,03	Balance Balance Balance	Slight Slight Slight
Pre-Posted Stainless Steel Archwire With Brass	70/30 Brass						68,5 – 71,5 Cu, 0,07 max Pb, 0,15 max others, Balance Zn	0,05 max	No
Archwire Post Braze Material	STN 1260-650					2,0	Ag 50,0, Cu 20,0 Zn 28,0		
Align Nickel Titanium Archwires and Coil Springs	Ni / Ti					54,0 – 56,0	Ti Balance		No
Ligature Ties- SS (Rotation Ties, Teflon-coated Ties, and Kobayashi Hooks)	302 / or 304	0,15 0,08	2,00 2,00	1,00 1,00	17,0 – 19,0 18,0 – 20,0	8,0 - 10,0 8,0 – 10,5	P 0,045, S 0,03 P 0,045, S 0,03	Balance Balance	Slight Slight
Instruments									
Pliers, Wire Benders & Cutters	410	0,15	1,00	1,00	11,5 – 13,0	.....	P 0,045, S 0,03	Balance	Yes
Archwire Seating Instruments	410	0,15	1,00	1,00	11,5 – 13,0	.....	P 0,045, S 0,03	Balance	Yes
Inspire ICE-Brackets	Pure Saphire (A1203) -monocrystalline								
Elastics	Surgical latex and polyuretane								
Headgear	Various cloth and plastics								
Bite Stick	313 Stainless Steel (Iron 58%, Cr 16-20%, Mi 8-14%, Molybdenum 3%, Cu 0-2,5%, Tin 1-1,5%) and Polyetherkotone thermoplastic stock								
Disposable Brushes	Black nylon brush – no classification FDA Title 21 Part 177.1520 plastic tubing handle Galvanized staple - no classification								