Ormco
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Material-Compositions Ormco -Part 1

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	
Brackets & Tubes									
Damon Q, Damon 3MX	17-4 PH	0,07	0,5	1,00	15,0 – 17,5	3,0 – 5,0	P 0,04, S 0,03 Cu 3,0 – 5,0, Nb 0,15 – 0,45	Balance	Yes
Damon Clear	Polycrystalline Alumina (PCA) + Niti Locking Pin*								
*Damon Clear, Damon Q and SnapLink NiTi Locking Pin	NiTi	0,05			0,20	55,95	Ti 44,05, O 0,05, H 0,01, Other 0,20 max		
Damon SL, Tru Roth, Classic, Mini-Twin, Mini Single	17-4 PH	0,07	0,5	1,00	15,5 – 17,5	3,0 – 5,0	P 0,04, S 0,03 Cu 3,0 – 5,0, Nb 0,15 – 0,45	Balance	Yes
Brackets (TWIN, Attract)	310	0,25	2,00	1,50	24,0 – 26,0	19,0 – 22,0	Mo 2,0 – 3,0	Balance	No
Brackets (Stainless Steel)	303 Se	0,15	2,00	1,00	17.0 - 19.0	8.0 - 10.0		Balance	No
Brackets (Titanium)					0,1		Ti 99,0	Balance	No
Cast Brackets	316	0,08	2,00	1,00	16,0 – 18,0	10,0 – 14,0		Balance	No
Buccal Tubes (all)	310	0,25	2,00	1,50	24,0 – 26,0	19,0 – 22,0		Balance	No
Elastilugs (Direct bond)	304	0,08	2,00	1,00	18,0 – 20,0	8,0 – 10,5		Balance	Slight
Damon SL slides and Activa Clips	17-7 PH	0,09	1,00	1,00	16,0 – 18,0	6,5 – 7,75	P 0,04, S 0,03 Al 0,75 – 1,5	Balance	Yes
Damon SL springs	302	0,15	2,00	1,00	17,0 – 19,0	8,0 – 10,0	P 0,045, S 0,03	Balance	Slight
Direct Bond Foil Mesh Pads	316L	0,03	2,00	1,00	16,0 – 18,0	10,0 – 14,0	P 0,045, S 0,03 Mo 2,0 – 3,0	Balance	No
Direct Bond Braze Material						2,5	Ag 63, Cu 28,5 Sn 6,0	Balance	No
Bands (all)	305	0,12	2,00	1,00	17,0 – 19,0	10,5 – 13,0	P 0,045, S 0,03	Balance	No
Lingual Attachments									
Lingual Buttons	303 Se	0,15	2,00	1,00	17,0 – 19,0	8,0 – 10,0	P 0,20, S 0,06 Se 0,15 min	Balance	No
Caps, Lugs and Cleats	304	0,08	2,00	1,00	18,0 – 20,0	8,0 – 10,5	P 0,045, S 0,03	Balance	Slight
Lingual Sheats	310	0,25	2,00	1,50	24,0 – 26,0	19,0 – 22,0	P 0,045, S 0,03	Balance	No
Facebows and Lipbumper	302/ or 304	0,15 0,08	2,00 2,00	1,00 1,00	17,0 – 19,0 18,0 – 20,2	8,0 – 10,0 8,0 – 10,5	P 0,045, S 0,03 P 0,045, S 0,03	Balance Balance	Slight Slight
Miscellaneous Crimpable Ball Hooks	303	0,15	2,00	1,00	17,0 – 19,0	8,0 – 10,0	P 0,20, S 0,15 min, Mo 0,6	Balance	No
Vector Screw Spring	Grade 5 Titanium NiTi	0,06			0,20	54,90	Ti 100,00		