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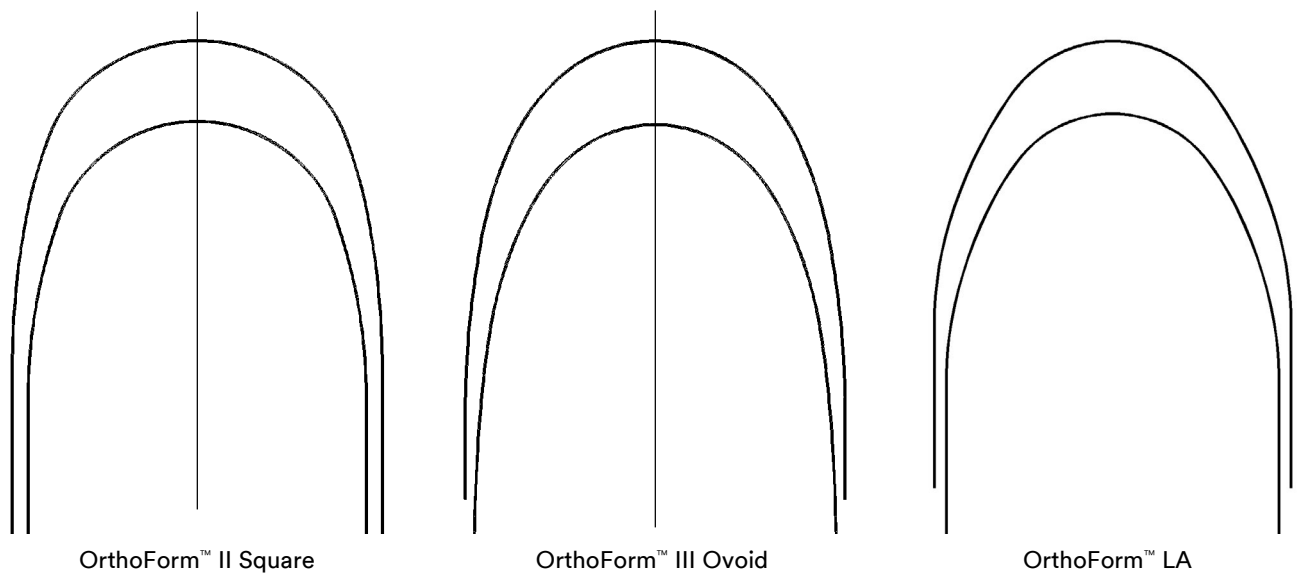
Over forty years ago 3M pioneered the use of nickel-titanium into orthodontists' wire progression plans. Today we offer three variations of Nitinol, three variations of stainless steel and Unitek™ Beta III Titanium – the happy medium between nickel-titanium and stainless steel.

Strict controls over archwire dimensions, visual appearance and mechanical properties assure the highest quality in the arch form, the force levels generated, and the malleability of the wire alloy.



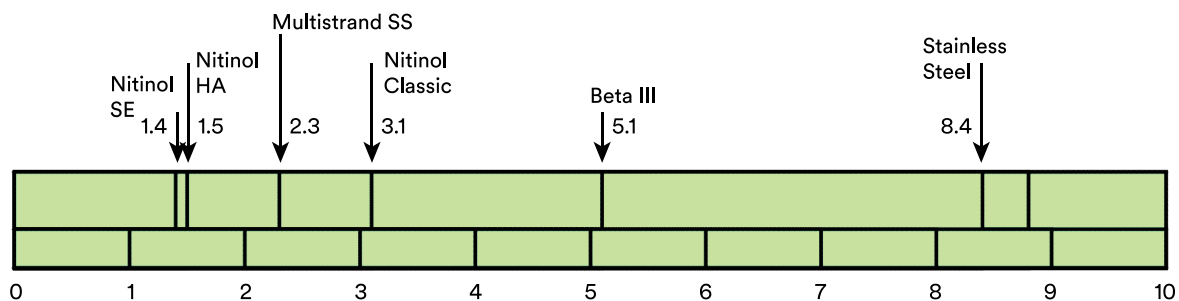
Arch Form

For over a century, there has been a persistent search for the ideal arch form for human dentition. Changes to arch form during treatment may result in instability and subsequent relapse, which can contradict this search for the ideal arch form. There is an awareness that a great deal of variation exists from one human arch form to another. With this in mind, 3M provides three distinct arch forms that reconcile the variation in anterior curvature, inter-cuspid width, inter-molar width and the curvature from the cuspid to the second molars.



Malleability

How easily a wire bends and how well it maintains the bends placed by the orthodontist are important criteria for choosing the correct archwire material. Malleability (or bendability) is almost the opposite of elasticity. Springy metals are difficult to bend, but wires that bend easily have minimal elasticity. Below is a continuum of malleability* on a scale from one to ten, ten being the most bendable:



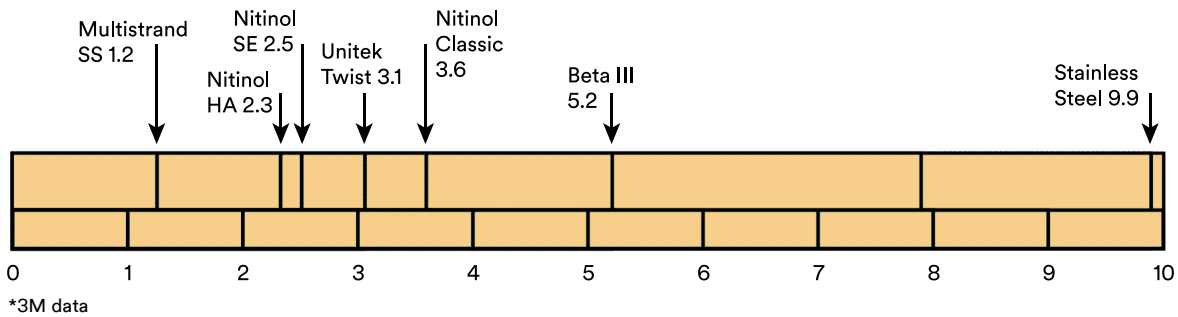
*3M data

Force Levels

Force levels of archwires can be divided into two distinct categories. The engagement force, which is known as the loading force, that the practitioner feels while handling the wire and ligating it into the appliance. The working force, commonly referred to as the return or unloading force, is the force that moves the teeth and is the force that the patient feels.

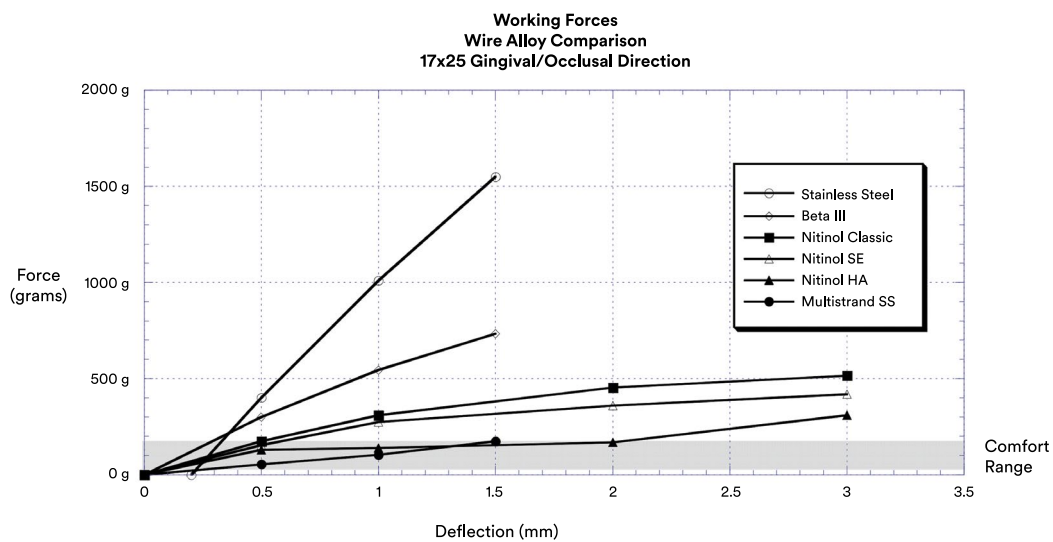
Engagement Force

Below is a continuum that describes the range of engagement forces from one wire alloy to another.* In this continuum, the smaller the number, the lighter the engagement force.



Working Force

Below is an example of comparison working forces between different types of archwires. In it you will see the working force generated from 3 mm of deflection to zero for different wire families. This working force chart details .017 x .025 gingival/occlusal direction:

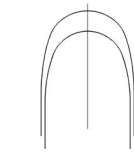
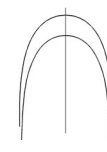
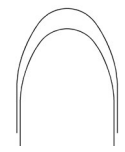


Archwire Analysis

Clearly your choices are numerous, and your orthodontic training and experience contribute to the overall list of criteria you use. In addition to reviewing the criteria listed in the preceding pages, 3M consultative representatives can provide an analysis and may be able to recommend a new wire progression for improved efficiency in your treatment plans.

Treatment Phase	First Choice	Second Choice	Third Choice
Initial Phase Getting Organized <ul style="list-style-type: none"> • leveling • tipping • rotating Necessary Wire Criteria <ul style="list-style-type: none"> • low forces • long working range • low modulus • low friction 	Nitinol HA	Nitinol SE	Nitinol Classic
Intermediate Phase Working the Big Picture <ul style="list-style-type: none"> • space closure • arch form correction • occlusal plane leveling Necessary Wire Criteria <ul style="list-style-type: none"> • medium forces • medium working range • medium modulus • medium malleability • low friction 	Nitinol Classic	Beta III Titanium	Permachrome Resilient
Finishing Phase Getting Down to Details <ul style="list-style-type: none"> • vertical detailing • individual rotations • refine interdigitation • retention Necessary Wire Criteria <ul style="list-style-type: none"> • medium forces • short working range • high modulus • high malleability 	Beta III Titanium	Permachrome Resilient	Permachrome Standard

Unitek™ Nitinol Heat-Activated Archwire

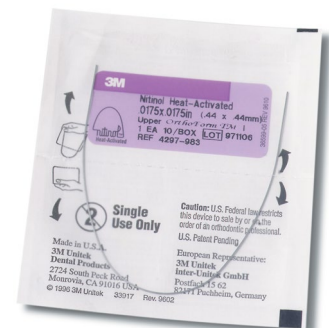
OrthoForm™ II
SquareOrthoForm™ III
OvoidOrthoForm™
LA

Dimension Inches	Dimension mm			
Round				
Upper				
.014	.36		9296-609	9296-611
.016	.41		4296-985	4296-991
.018	.46		4296-987	4296-993
.020	.51		-	4296-995
.0215	.55		9296-615	9296-617
Lower				
.014	.36		9296-610	9296-612
.016	.41		4296-986	4296-992
.018	.46		4296-988	4296-994
.020	.51		-	4296-996
.0215	.55		9296-616	9296-618
Rectangular/Square				
Upper				
.014 x .025	.36 x .64		9296-633	9296-635
.016 x .022	.41 x .56		4297-973	4297-913
.016 x .025	.41 x .64		9296-621	9296-623
.0175 x .0175	.44 x .44		4297-975	4297-911
.017 x .025	.43 x .64		4297-991	4297-921
.017 x .025 H*	.43 x .64		9296-627	9296-629
.019 x .025	.48 x .64		4297-977	4297-919
.019 x .025 H*	.48 x .64		9296-645	9296-647
.021 x .021	.53 x .53		4297-979	4297-917
.021 x .025	.53 x .64		4297-993	4297-923
.021 x .025 H*	.53 x .64		-	9296-641
Lower				
.014 x .025	.36 x .64		9296-634	9296-636
.016 x .022	.41 x .56		4297-974	4297-914
.016 x .025	.41 x .64		9296-622	9296-624
.0175 x .0175	.44 x .44		4297-976	4297-912
.017 x .025	.43 x .64		4297-992	4297-922
.017 x .025 H*	.43 x .64		9296-628	9296-630
.019 x .025	.48 x .64		4297-978	4297-920
.019 x .025 H*	.48 x .64		9296-646	9296-648
.021 x .021	.53 x .53		4297-980	4297-918
.021 x .025	.53 x .64		4297-994	4297-924
.021 x .025 H*	.53 x .64		-	9296-642

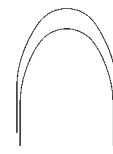
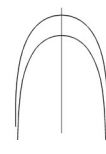
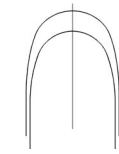
*Hybrid

Nitinol Heat-Activated is a thermally activated super-elastic archwire. It is the easiest of Nitinol wires to engage, and it delivers light continuous forces that effectively move teeth with minimal discomfort to the patient.

- Can be cooled or chilled resulting in a softer, more pliable wire for easy engagement
- Provides light continuous forces
- Force activation occurs around body temperature
- Available in square sizes making it excellent for early torque control
- Good bend retention when bent in hot water
- 10/pk unit of use



Unitek™ Nitinol Super-Elastic Archwire



Dimension Inches	Dimension mm	OrthoForm™ II Square	OrthoForm™ III Ovoid	OrthoForm™ LA	Reverse Curve
Round					
Upper					
.014	.36	4296-805	4296-911	4296-813	-
.014 D**	.36	9296-805	9296-911	-	-
.016	.41	4296-807	4296-913	4296-815	296-821
.016 D**	.41	9296-807	9296-913	-	-
.018	.46	4296-809	4296-915	4296-817	296-823
.020	.51	4296-811	4296-917	-	297-871
Lower					
.014	.36	4296-806	4296-912	4296-814	-
.014 D**	.36	9296-806	9296-912	-	-
.016	.41	4296-808	4296-914	4296-816	296-822
.016 D**	.41	9296-808	9296-914	-	-
.018	.46	4296-810	4296-916	4296-818	296-824
.020	.51	4296-812	4296-918	-	297-872
Rectangular/Square					
Upper					
.014 x .025 D**	.36 x .64	9293-815	9293-817	-	-
.016 x .016	.41 x .41	4297-803	4297-951	4297-831	-
.016 x .022	.41 x .56	4297-801	4297-953	4297-833	297-821
.016 x .025	.41 x .64	-	-	-	297-869
.016 x .025 D**	.41 x .64	9293-851	9293-853	-	-
.017 x .025	.43 x .64	4297-807	4297-955	4297-835	297-823
.017 x .025 D**	.43 x .64	9297-807	9297-955	-	-
.017 x .025 H* D**	.43 x .64	9293-879	9293-881	-	-
.018 x .018	.46 x .46	4297-809	4297-957	-	-
.018 x .025	.46 x .64	4297-813	4297-959	-	-
.018 x .025 H*	.46 x .64	9293-905	9293-907	-	-
.019 x .025	.48 x .64	4297-815	4297-961	-	297-825
.019 x .025 H*	.48 x .64	9296-651	9296-653	-	-
.021 x .025	.53 x .64	4297-817	4297-963	-	297-827
.021 x .025 H*	.53 x .64	9293-933	9293-935	-	-
Lower					
.014 x .025 D**	.36 x .64	9293-816	9293-818	-	-
.016 x .016	.41 x .41	4297-804	4297-952	4297-832	-
.016 x .022	.41 x .56	4297-802	4297-954	4297-834	297-822
.016 x .025	.41 x .64	-	-	-	297-870
.016 x .025 D**	.41 x .64	9293-852	9293-854	-	-
.017 x .025	.43 x .64	4297-808	4297-956	4297-836	297-824
.017 x .025 D**	.43 x .64	9297-808	9297-956	-	-
.017 x .025 H* D**	.43 x .64	9293-880	9293-882	-	-
.018 x .018	.46 x .46	4297-810	4297-958	-	-
.018 x .025	.46 x .64	4297-814	4297-960	-	-
.018 x .025 H*	.46 x .64	9293-906	9293-908	-	-
.019 x .025	.48 x .64	4297-816	4297-962	-	297-826
.019 x .025 H*	.48 x .64	9296-652	9296-654	-	-
.021 x .025	.53 x .64	4297-818	4297-964	-	297-828
.021 x .025 H*	.53 x .64	9293-934	9293-936	-	-

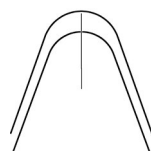
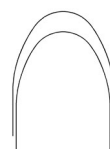
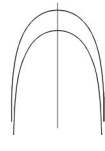
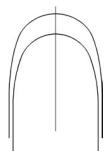
*Hybrid **Dimpled

Nitinol Super-Elastic is easy to engage and maintains light continuous forces with a range between Nitinol Heat-Activated and Nitinol Classic.

- Provides light continuous forces
- Easy engagement characteristics
- Good early torque control
- 10/pk unit of use
- Available in Reverse Curve in folder pack of 10 wires



Unitek™ Nitinol Classic Archwire

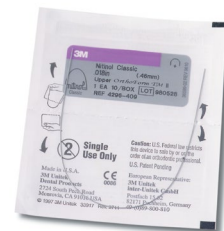


Dimension Inches	Dimension mm	OrthoForm™ II Square	OrthoForm™ III Ovoid	OrthoForm™ LA	Standard
Round					
Upper					
.012	.30	9296-603	9296-605	-	4296-121
.014	.36	4296-405	4296-517	4296-307	4296-141
.014 D**	.36	9296-405	9296-517	-	-
.016	.41	4296-407	4296-519	4296-303	4296-161
.016 D**	.41	9296-407	9296-519	-	-
.018	.46	4296-409	4296-521	4296-315	4296-181
.020	.51	4296-411	4296-523	-	-
Lower					
.012	.30	9296-604	9296-606	-	4296-122
.014	.36	4296-406	4296-518	4296-308	4296-142
.014 D**	.36	9296-406	9296-518	-	-
.016	.41	4296-408	4296-520	4296-304	4296-162
.016 D**	.41	9296-408	9296-520	-	-
.018	.46	4296-410	4296-522	4296-316	4296-182
.020	.51	4296-412	4296-524	-	-
Rectangular/Square					
Upper					
.014 x .025 D**	.36 x .64	9293-821	9293-823	-	-
.016 x .016	.41 x .41	4297-701	4297-851	4297-601	-
.016 x .022	.41 x .56	4297-703	4297-853	4297-603	4297-171
.016 x .025 D**	.41 x .64	-	9293-859	-	-
.017 x .022	.43 x .56	4297-705	4297-855	-	-
.017 x .025	.43 x .64	4297-707	4297-857	4297-609	4297-281
.017 x .025 D**	.43 x .64	-	9297-857	-	-
.017 x .025 H* D**	.43 x .64	-	-	-	-
.018 x .018	.46 x .46	4297-709	4297-859	4297-613	4297-113
.018 x .022	.46 x .56	4297-711	4297-861	-	-
.018 x .025	.46 x .64	4297-713	4297-863	4297-615	4297-381
.018 x .025 H*	.46 x .64	-	-	-	-
.019 x .025	.48 x .64	4297-715	4297-865	4297-621	-
.019 x .025 H*	.48 x .64	9293-953	9293-955	-	-
.021 x .025	.53 x .64	4297-717	4297-867	-	-
Lower					
.014 x .025 D**	.36 x .64	9293-822	9293-824	-	-
.016 x .016	.41 x .41	4297-702	4297-852	4297-602	-
.016 x .022	.41 x .56	4297-704	4297-854	4297-604	4297-172
.016 x .025 D**	.41 x .64	-	9293-860	-	-
.017 x .022	.43 x .56	4297-706	4297-856	-	-
.017 x .025	.43 x .64	4297-708	4297-858	4297-610	4297-282
.017 x .025 D**	.43 x .64	-	9297-858	-	-
.017 x .025 H* D**	.43 x .64	-	-	-	-
.018 x .018	.46 x .46	4297-710	4297-860	4297-614	4297-114
.018 x .022	.46 x .56	4297-712	4297-862	-	-
.018 x .025	.46 x .64	4297-714	4297-864	4297-616	4297-382
.018 x .025 H*	.46 x .64	-	-	-	-
.019 x .025	.48 x .64	4297-716	4297-866	4297-622	-
.019 x .025 H*	.48 x .64	9293-954	9293-956	-	-
.021 x .025	.53 x .64	4297-718	4297-868	-	-

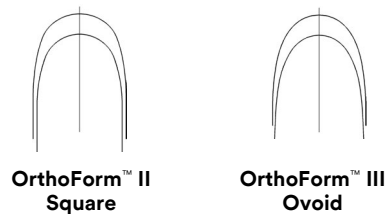
*Hybrid **Dimpled

3M pioneered nickel-titanium as an improved alternative to stainless steel in 1977. This "Classic" archwire continues to provide the linear elasticity and bendability of high strength steel and the elastic working range and lighter forces that only a nickel-titanium can deliver.

- Long working range
- 40% the forces of stainless steel
- 10/pk unit of use



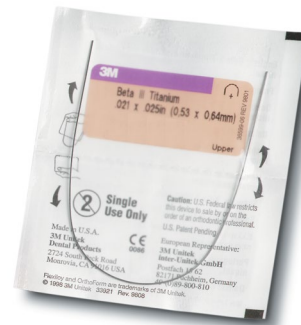
Unitek™ Beta III Titanium Archwire



Dimension Inches	Dimension mm	OrthoForm™ II Square	OrthoForm™ III Ovoid
Rectangular/Square			
Upper			
.016 x .022	.41 x .56	4301-302	4301-304
.016 x .025	.41 x .64	4301-352	4301-354
.0175 x .0175	.44 x .44	4301-336	4301-338
.017 x .025	.43 x .64	4301-308	4301-310
.019 x .025	.48 x .64	4301-314	4301-316
.021 x .025	.53 x .64	4301-320	4301-322
Lower			
.016 x .022	.41 x .56	4301-303	4301-305
.016 x .025	.41 x .64	4301-353	4301-355
.0175 x .0175	.44 x .44	4301-337	4301-339
.017 x .025	.43 x .64	4301-309	4301-311
.019 x .025	.48 x .64	4301-315	4301-317
.021 x .025	.53 x .64	4301-321	4301-323

Known as the “happy medium” between nickel-titanium and stainless steel, this archwire provides the extended working range of a titanium alloy and the bendability of stainless steel.

- Processed to reduce breakage
- Polished surface finish for improved sliding mechanics
- Tight corner radii specifications reducing torque loss, especially in final phase of treatment
- 10/pk unit of use



Unitek™ Lateral Development Archwires

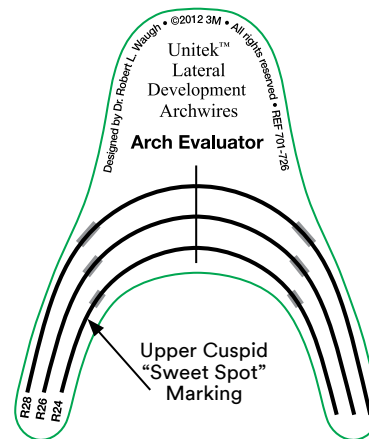
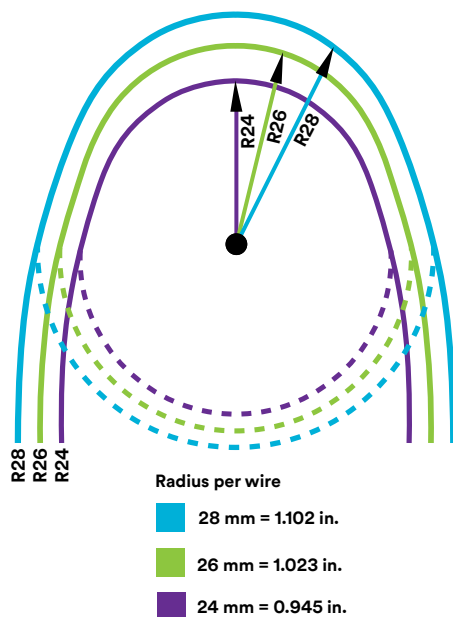
Dimension Inches	Dimension mm	R28		R26		R24	
Nitinol							
.012	.30	4581-301	5	4581-302	5	4581-303	5
.013	.33	4581-304	5	4581-305	5	4581-306	5
.014	.36	4581-307	5	4581-308	5	4581-309	5
.016	.41	4581-310	5	4581-311	5	4581-312	5
.018	.46	4581-313	5	4581-314	5	4581-315	5
.020	.51	4581-316	5	4581-317	5	4581-318	5
.014 x .025	.36 x .64	4581-319	5	4581-320	5	4581-321	5
.016 x .022	.41 x .56	4581-322	5	4581-323	5	4581-324	5
.016 x .025	.41 x .64	4581-325	5	4581-326	5	4581-327	5
.017 x .025	.43 x .64	4581-328	5	4581-329	5	4581-330	5
.018 x .025	.46 x .64	4581-331	5	4581-332	5	4581-333	5
.019 x .025	.48 x .64	4581-334	5	4581-335	5	4581-336	5
Nitinol HA							
.014 x .025	.36 x .64	4585-301	5	4585-302	5	4585-303	5
.016 x .025	.41 x .64	4585-304	5	4585-305	5	4585-306	5
.017 x .025	.43 x .64	4585-307	5	4585-308	5	4585-309	5
.018 x .025	.46 x .64	4585-310	5	4585-311	5	4585-312	5
.019 x .025	.48 x .64	4585-313	5	4585-314	5	4585-315	5
Beta Titanium							
.016 x .022	.41 x .56	4582-301		4582-302		4582-303	
.017 x .025	.43 x .64	4582-304		4582-305		4582-306	
.019 x .025	.48 x .64	4582-307		4582-308		4582-309	
Stainless Steel							
.016 x .022	.41 x .56	4583-301		4583-302		4583-303	
.016 x .025	.41 x .64	4583-304		4583-305		4583-306	
.017 x .025	.43 x .64	4583-307		4583-308		4583-309	
.019 x .025	.48 x .64	4583-310		4583-311		4583-312	

- For Nitinol and Nitinol HA archwires with pre-loaded stops, add a 5 at the end of the 7 digit part number.
- 10/pk unit of use

with stops

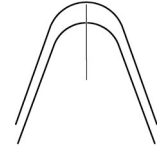
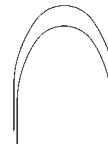
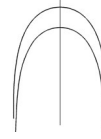
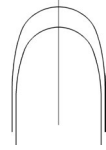
with stops

with stops



Arch Evaluator (5/pk)
REF 701-726

Permachrome Resilient Archwire



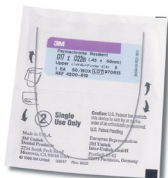
Dimension Inches	Dimension mm	OrthoForm™ II Square	OrthoForm™ III Ovoid	OrthoForm™ LA	Standard
Round					
Upper					
.012	.30	4300-603	300-003	-	-
.014	.36	4 300-605	4 300-005	-	299-145
.016	.41	4 300-607	4 300-007	300-503	299-165
.018	.46	4 300-609	4 300-009	300-515	299-185
.020	.51	4 300-611	4 300-011	4300-521	299-205
Lower					
.012	.30	4300-604	300-004	-	-
.014	.36	4 300-606	4 300-006	-	299-146
.016	.41	4 300-608	4 300-008	300-504	299-166
.018	.46	4 300-610	4 300-010	300-516	299-186
.020	.51	4 300-612	4 300-012	4300-522	299-206
Rectangular/Square					
Upper					
.016 x .016	.41 x .41	4 300-615	4 300-015	4 300-565	298-115
.016 x .022	.41 x .56	4 300-617	4 300-017	300-567	298-175
.016 x .025	.41 x .64	4300-657	4 300-659	-	-
.0175 x .0175	.44 x .44	4293-341	4293-351	4 -	-
.017 x .022	.43 x .56	4300-619	4 300-019	4300-577	298-275
.017 x .025	.43 x .64	4 300-621	4 300-021	300-579	298-285
.017 x .025 H*	.43 x .64	9293-891	9293-893	-	-
.018 x .022	.46 x .56	4300-623	4 300-023	4300-569	-
.018 x .025	.46 x .64	4 300-625	4 300-025	300-573	298-385
.018 x .025 H*	.46 x .64	9293-917	9293-919	-	-
.019 x .025	.48 x .64	4 300-627	4 300-027	300-585	298-485
.019 x .025 H*	.48 x .64	9293-959	9293-961	-	-
.021 x .025	.53 x .64	4300-629	4 300-029	4300-593	298-585
Lower					
.016 x .016	.41 x .41	4 300-616	4 300-016	4 300-566	298-116
.016 x .022	.41 x .56	4 300-618	4 300-018	300-568	298-176
.016 x .025	.41 x .64	4300-658	4 300-660	-	-
.0175 x .0175	.44 x .44	4293-342	4293-352	-	-
.017 x .022	.43 x .56	4300-620	4 300-020	4300-578	298-276
.017 x .025	.43 x .64	4 300-622	4 300-022	300-580	298-286
.017 x .025 H*	.43 x .64	9293-892	9293-894	-	-
.018 x .022	.46 x .56	4300-624	4 300-024	-	-
.018 x .025	.46 x .64	4 300-626	4 300-026	300-574	298-386
.018 x .025 H*	.46 x .64	9293-918	9293-920	-	-
.019 x .025	.48 x .64	4 300-628	4 300-028	300-586	298-486
.019 x .025 H*	.48 x .64	9293-960	9293-962	-	-
.021 x .025	.53 x .64	4300-630	4 300-030	4300-594	298-586

Unit of Use

Unit of Use

Unit of Use

*Hybrid

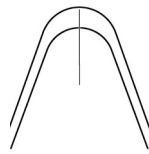


Our most popular stainless steel archwire – delivering a balance of malleability and springback.

- Better formability than Hi-T™ II
- Mid-range tensile strength

- OrthoForm II, III, LA packed 50/pk unit of use or 10/pk folders
- Standard Archform Round packed 50/pk folders, Square and Rectangular 10/pk folders
- Hybrid packed 10/pk unit of use

Permachrome Standard Archwire

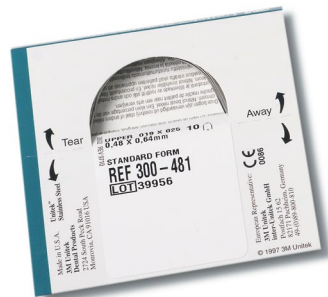


Dimension Inches	Dimension mm	Standard
Round		
Upper		
.018	.46	301-181
Lower		
.018	.46	301-182
Rectangular/Square		
Upper		
.016 x .022	.41 x .56	300-171
.017 x .025	.43 x .64	300-281
.018 x .025	.46 x .64	300-381
.019 x .025	.48 x .64	300-481
Lower		
.016 x .022	.41 x .56	300-172
.017 x .025	.43 x .64	300-282
.018 x .025	.46 x .64	300-382
.019 x .025	.48 x .64	300-482

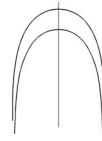
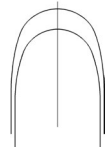
Unit of Use

This stainless steel archwire is recommended when complex bends and loops are required.

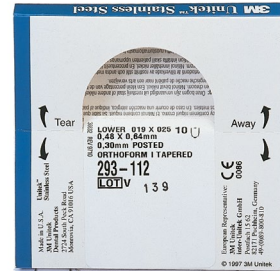
- Better malleability than Permachrome Resilient and Hi-T™ II
- Lowest tensile strength
- Round wires packed 50/pkg folders, Rectangular wires 10/pkg folders



Permachrome Posted Archwire Miscellaneous Solder Supplies



Dimension Inches	Inter-Post mm	OrthoForm™ II Square	OrthoForm™ III Ovoid
Rectangular			
Upper			
.016 x .022	44	-	300-931
.016 x .022	42	-	300-932
.016 x .022	40	-	300-933
.016 x .022	38	300-728	300-934
.016 x .022	36	300-729	300-935
.016 x .022	34	300-730	300-936
.016 x .022	32	300-731	300-937
<hr/>			
.019 x .025	44	-	300-938
.019 x .025	42	300-233	300-939
.019 x .025	40	300-234	300-940
.019 x .025	38	300-235	300-941
.019 x .025	36	300-236	300-942
.019 x .025	34	300-237	300-943
.019 x .025	32	300-238	300-944
<hr/>			
Rectangular			
Lower			
.016 x .022	30	-	300-955
.016 x .022	28	-	300-956
.016 x .022	26	-	300-957
.016 x .022	24	-	300-958
.016 x .022	22	-	300-959
<hr/>			
.019 x .025	30	300-244	300-960
.019 x .025	28	300-245	300-961
.019 x .025	26	300-246	300-962
.019 x .025	24	300-247	300-963
.019 x .025	22	-	300-964



- High tensile strength
- Stainless steel wires with brass alloy posts
- Available in folder packs only
- 10/pk

Solder Supplies

Unitek™ Soldering Flux 700-202

Silver Solder

- Dead soft. Contains no toxic cadmium.
- 2-DWT package

700-101 Light, Diameter: 0.010 in. (0.25 mm);
Length: 30 feet (9.14 meters)

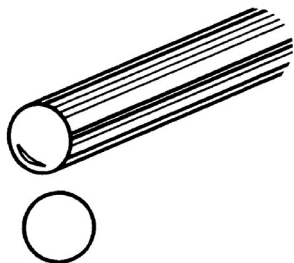
700-102 Regular, Diameter: 0.015 in. (0.38 mm);
Length: 20 feet (6.10 meters)

700-103 Heavy, Diameter: 0.025 in. (0.64 mm);
Length: 10 feet (3.05 meters)

Unitek™ Stainless Steel Straight Lengths

Round Wire

- 14 in. (35.6 cm)
Straight Lengths



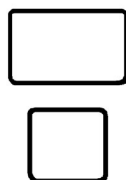
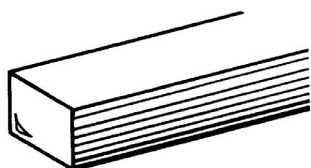
Size		Permachrome Standard	Qty/ Pkg	Permachrome Resilient	Qty/ Pkg
Inches	mm				
.010	.25	211-100	40	-	
.012	.30	211-120	40	-	40
.014	.36	211-140	40	213-140	40
.015	.39	211-150	40	-	
.016	.41	211-160	40	213-160	40
.018	.46	211-180	40	213-180	40
.020	.51	211-200	40	213-200	40
.021	.53	211-210	35	-	
.022	.56	211-220	35	-	
.024	.61	211-240	30	-	
.025	.64	211-250	30	220-250	30
.026	.66	211-260	30	-	
.028	.71	211-280	25	220-280	30
.030	.76	211-300	25	220-300	30
.032	.81	211-320	25	220-320	30
.036	.91	211-360	25	220-360	25
.040	1.0	211-400	20	-	
.045	1.14	211-450	15	-	
.051	1.3	211-510	15	-	
.055	1.4	211-550	15	-	

Rectangular and Square Wire

- Slightly radiused corners facilitate insertion into bracket slot with no appreciable loss of torque

- Square wire for control with optimum sliding mechanics

- Tighter diagonal tolerance on .016 x .016 to avoid rolling in slot
- 10/pkg



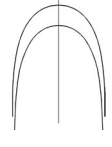
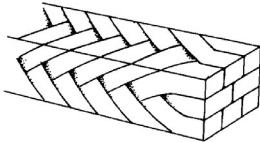
14 in. (35.6 cm) Straight Lengths

Size		Permachrome Standard	Permachrome Resilient
Inches	mm		
.016 x .016	.41 x .41	251-616	253-616
.016 x .022	.41 x .56	251-622	253-622
.017 x .022	.43 x .56	251-722	253-722
.017 x .025	.43 x .64	251-725	253-725
.018 x .018	.46 x .46	-	253-818
.018 x .022	.46 x .56	251-822	253-822
.018 x .025	.46 x .64	251-825	253-825
.019 x .025	.48 x .64	251-925	253-925
.020 x .025	.51 x .64	-	253-025
.021 x .025	.53 x .64	251-125	253-125
.0215 x .028	.55 x .71	251-228	253-228

Multi-Strand Archwire

Unitek™ Braided Wire

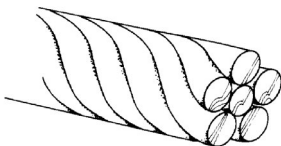
- Eight (8) strand Braided Rectangular
- Three dimensional control
- Wide working range
- 10/pk



Dimension Inches	Dimension mm	OrthoForm™ II Square	OrthoForm™ III Ovoid
Rectangular/Square			
Upper			
.016 x .016	.41 x .41	300-905	-
.016 x .022	.41 x .56	300-907	-
.017 x .025	.43 x .64	300-909	300-967
.018 x .025	.46 x .64	300-911	-
.019 x .025	.48 x .64	300-913	300-971
.021 x .025	.53 x .64	300-915	-
Lower			
.016 x .016	.41 x .41	300-906	-
.016 x .022	.41 x .56	300-908	-
.017 x .025	.43 x .64	300-910	300-968
.018 x .025	.46 x .64	300-912	-
.019 x .025	.48 x .64	300-914	300-972
.021 x .025	.53 x .64	300-916	-

Unitek™ Coaxial Wire

- Five (5) tempered wires wrapped around a core wire
- Light force
- Highly flexible – easy to engage
- Excellent initial wire
- One form for both U/L arches
- Ends do not unravel when cut
- 10/pk



Inches	Size mm	OrthoForm™ II	
		Round	14 in. Lengths
.0155	.40		300-760
.0175	.45		300-761
.0195	.48		300-762
.0215	.51		300-763

Unitek™ Twist Wire

- Three (3) strand twist
- More continuous light force over greater working range than solid round wire of same diameter
- 10/pk

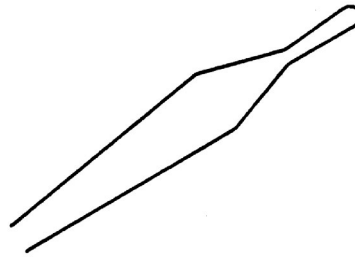


Inches	Size mm	OrthoForm™ II	
		Upper	Lower
.0175	.45	300-701	300-702

Ligature Wire and Tie Hooks

Ligature Wire

- Preformed ligature slips easily over all brackets
- Coated preformed ligature wire; ideal for esthetic brackets such as Clarity™ Brand Brackets
- Dead soft permachrome wire in color coded bundles of 200
- Coated ligature wire reduces friction between archwire and bracket



Preformed Uncoated (1,000/pk)

Diameter		Color Band
Inches	mm	
.008	.20	390-080 Yellow
.009	.23	390-090 Green
.010	.25	390-100 Blue
.011	.28	390-110 Pink
.012	.30	390-120 Black
.014	.36	390-140 Red

Spool Uncoated

Diameter		16 oz. (.45 kg)
Inches	mm	
.008	.20	200-084
.009	.23	200-094
.010	.25	200-104
.011	.28	200-114
.012	.30	200-124
.014	.36	200-144

Preformed Coated (100/pk)

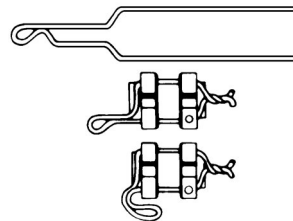
Diameter		Coating Color
Inches	mm	
.012*	.30	390-160 Natural

*Finished diameter .008 Core wire

Auxiliary Ligature Tie Hooks

- .014 in. (.36 mm) ligature wire spot-welded to form a hook
- Slips under tie-wing, secures like ligature
- Tie-in mesially or distally with archwire in place

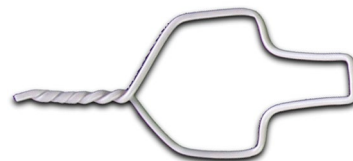
390-145 100/pk



Unitek™ Ligature Ties Preformed Coated .012

- Esthetic, tooth colored ligature tie that can be used with ceramic brackets such as Clarity™ Advanced Ceramic Brackets
- Stainless Steel tie with a Polymer Coating (Ethylene/Tetrafluoroethylene Copolymer)
- .012 diameter
- Available in packs of 100

390-170 100/pk



Retainer Wire

Hawley Labial Retainer (Single Loop)

- .030 in. (.76 mm) Permachrome Resilient Wire
- Preformed three dimensional complex bends, including lateral indents and convoluted palatal extensions for positive anchorage
- Ready to anchor in acrylic base
- Center of loop is on marginal ridge of cuspid



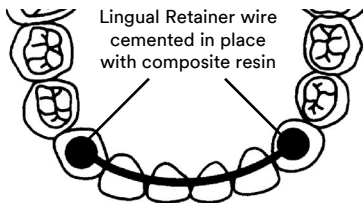
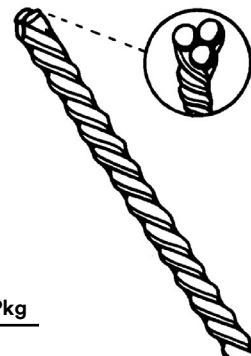
Hawley Retainer Wires (1/Pack)

Length (mm*)	Size	Length (mm*)	Size		
32.8	0	360-300	45.3	5	360-305
35.2	1	360-301	47.8	6	360-306
37.8	2	360-302	50.3	7	360-307
40.3	3	360-303	52.7	8	360-308
42.8	4	360-304	55.2	9	360-309

*Center distal loop to distal loop which corresponds to the distance cuspid to cuspid

Lingual Retainer Wire (Bondable)

- 7 in. (17.8 cm) straight lengths
- .032 in. (.81 mm) stainless steel in tight twist, will not unravel when cut
- Tight spiral twist facilitates bonding without end loops or bonding pads
- Bond any or all teeth in segment



Diameter		Order	
Inches	mm	No.	Qty/Pkg
.032	.81	260-032	25

Lingual Retainer Kit

- 25 each Twist wire
- 50 each AlastiK™ EZ3 Holders
- Complete Instructions

709-060

AlastiK™ EZ3 Holder



• Not Made With Natural Rubber Latex

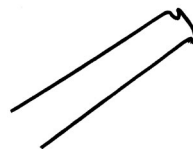
- Pre-bonding lingual wire support
- Eliminates need for wax, ligature wire, floss threader or manual assistance

406-044 10/pk

Clasps

Modified Arrowhead Clasps

- Permachrome Resilient
- Grips single teeth independently
- Use on primary, permanent or semi-erupted teeth

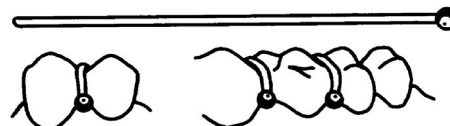


Modified Arrowhead Clasp (10/Pk)

Size		Width		
Inches	mm	(mm)		
.024	.61	5.5	362-241	Primary & Permanent Cuspids
.024	.61	6.5	362-243	Primary & Permanent Cuspids
.028	.71	6.0	362-282	Bicuspid & Primary Molars
.028	.71	7.0	362-284	Primary Molars
.028	.71	8.0	362-285	Permanent Molars
.028	.71	9.0	362-286	Permanent Molars
.028	.71	10.0	362-287	Permanent Molars
.028	.71	11.0	362-288	Permanent Molars
.028	.71	12.0	362-289	Permanent Molars

Ball Clasps

- Length 1.38 in. (34.9 mm)
- Stainless steel round wire with integrated round ball at one end
- Ball diameter approximately twice wire diameter
- 10/pk



Wire

Diameter		Length		
in.	mm	in.	mm	
.024	.61	1.38	34.9	364-240
.028	.71	1.38	34.9	364-280
.032	.81	1.50	38.1	364-320
.040	1.02	1.50	38.1	364-400

Archwire Accessories

Unitek™ Archwire Dispenser

Holds up to six boxes of archwires (archwires not included). White Plexiglass.
453-012



Light Wire Arch Computer

Flexible vinyl computer used for fast determination of proper archwire size by measuring cuspid-to-cuspid distance on patient's model.
701-720

Refer to Supplies and Equipment section for arch form symmetry aids.

