

TRU-CHROME®

TRU-CHROME® Development

Wire has been basic to orthodontics since its beginning. By serving as holding, anchoring and spring elements, the orthodontist is able to stimulate tooth movement predictably and precisely.

In developing specialty wires for modern orthodontics, several considerations are involved:

- Semantic problem of matching requirements and terminology of orthodontics with engineering terms and tests.
- Selecting the best alloys, tempers, sizes, etc.
- Engineering procedures and quality controls for accuracy and dependability.
- Refinement of time-saving instruments, equipment and handling techniques to assure best results.

In the selection here, you will find the most complete choice of controlled quality wire for all techniques.

The success of chrome alloy stainless steel in orthodontics lies in the keen combination of delicacy and strength. It possesses, to an unusual degree, those three requisites of an orthodontic metal—hardness, elastic limit, and tensile strength.

TRU-CHROME® Stainless Steel Wire

TRU-CHROME stainless steel wire is a stable, consistent, predictable performance wire, offered in four tempers. Quality controls are the tightest of any stainless steel wire in the industry.

Resilient Arch Wire Temper

Resilient arch wire temper is available in preformed arch blanks and is used in some special wire forms, depending on the suitability for the desired usage. Straight lengths are provided for those who prefer forming their own arch wires.

Retainer Wire or No. 2 Temper

Retainer wire or No. 2 temper stainless steel wire has a softer temper than arch wire temper, which enables the operator to more easily form the wire into retainer appliances. Forming the wire work-hardens it and provides a working resiliency for retainer appliances.

Clasp Wire Temper

Clasp wire is a stainless steel wire between the resilient arch wire temper and the retainer wire temper. It is soft enough to be instrument-formed to the clasp configuration and, in forming, gains sufficient hardening from pliering to have a satisfactory spring resiliency for clasps.

Ligature Wire Temper

Ligature Wire is a stainless steel wire of “dead-soft” temper that allows ligating and tying to be done with minimal work-hardening of the wire.

Stainless Steel Wire Properties

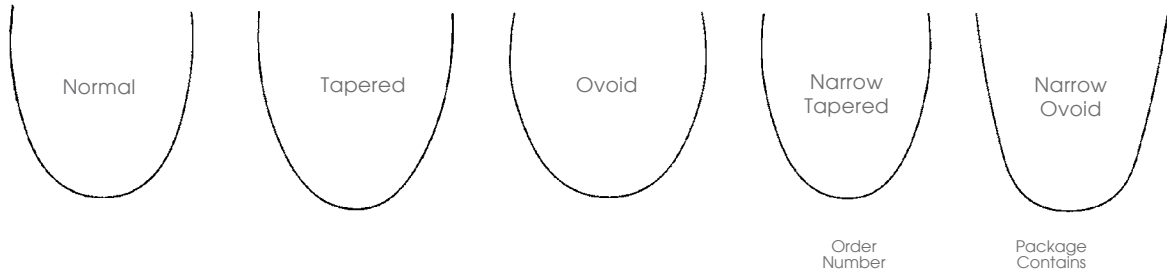
Composition of TRU-CHROME®

	Type 302	Type 304
Carbon	0.08-0.20	0.08 max
Manganese	2.00 max	2.00 max
Silicon	1.00 max	1.00 max
Phosphorus	0.040 max	0.040 max
Sulphur	0.030 max	0.030 max
Chromium	17-19	18-30
Nickel	8-10	8-10
Iron	Balance	Balance

Penta-Morphic® Arches (Ricketts®)

- Developed by Dr. Robert Ricketts
- Finishing arches for post-treatment provide long-term stability
- Five arch forms: normal, tapered, ovoid, narrow tapered, narrow ovoid
- Tooth size, facial type, and other morphological considerations have been built into the five forms
- Distal length for individualized bends or continuation to second molar
- Maxillary or mandibular
- TRU-CHROME® stainless steel

	RECTANGULAR .016" x .022" (0.406 x 0.559mm)	RECTANGULAR .017" x .025" (0.432 x 0.635mm)	RECTANGULAR .018" x .025" (0.457 x 0.635mm)	RECTANGULAR .019" x .025" (0.483 x 0.635mm)	SQUARE .016" x .016" (0.406 x 0.406mm)	ROUND .014" (0.356mm)	ROUND .016" (0.406mm)	ROUND .018" (0.457mm)	ROUND .020" (0.508mm)	Package Contains
Normal	E00651	E00661	E01035	E01045	E01000	E01005	E01010	E01015	E01060	10
Tapered	E00652	E00662	E01036	E01046	E01001	E01006	E01011	E01016	E01061	10
Ovoid	E00653	E00663	E01037	E01047	E01002	E01007	E01012	E01017	E01062	10
Narrow Tapered	E00654	E00664	E01038	E01048	E01003	E01008	E01013	E01018	E01063	10
Narrow Ovoid	E00655	E00665	E01039	E01049	E01004	E01009	E01014	E01019	E01064	10



Penta-Morphic® Arch Selector

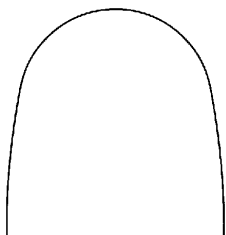
8" x 10" Vinylite

i00509

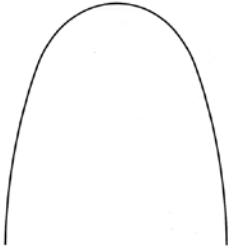
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TRU-CHROME® Stainless Steel Preformed Natural Arches

- TRU-CHROME preformed natural arches can be easily soldered, stress relieved, and spot welded
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch



Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.014	(0.356)	A07201	A07221	100
.016	(0.406)	A07202	A07222	100
.018	(0.457)	A07203	A07223	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A07205	A07225	10
.018 x .018	(0.457 x 0.457)	A07206	A07226	10
.019 x .019	(0.483 x 0.483)	A07212	A07232	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07207	A07227	10
.017 x .025	(0.432 x 0.635)	A07208	A07228	10
.018 x .025	(0.457 x 0.635)	A07209	A07229	10
.019 x .025	(0.483 x 0.635)	A07210	A07230	10
.021 x .025	(0.533 x 0.635)	A07211	A07231	10



TRU-CHROME® Stainless Steel Preformed Ideal Arches

- TRU-CHROME preformed Ideal arches can be easily soldered, stress relieved and spot welded
- Permanent midline etchmarks: Three lines for a maxillary arch, and one line for a mandibular arch

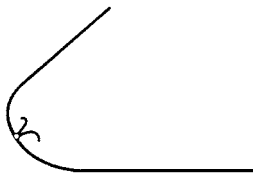
Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.014	(0.356)	A07251	A07271	100
.016	(0.406)	A07252	A07272	100
.018	(0.457)	A07253	A07273	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A07255	A07275	10
.018 x .018	(0.457 x 0.457)	A07256	A07276	10
.019 x .019	(0.483 x 0.483)	A07262	A07282	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07257	A07277	10
.017 x .025	(0.432 x 0.635)	A07258	A07278	10
.018 x .025	(0.457 x 0.635)	A07259	A07279	10
.019 x .025	(0.483 x 0.635)	A07260	A07280	10
.021 x .025	(0.533 x 0.635)	A07261	A07281	10



TRU-CHROME® Stainless Steel Anterior Arch Blanks

- All arch blanks are anterior contour (3 x 3) with midline etchmarks: Three lines for a maxillary arch, and one line for a mandibular arch
- TRU-CHROME stainless steel arch blanks can be easily soldered, stress relieved and spot welded

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.016	(0.406)	A00781	A00786	100
.018	(0.457)	A00782	A00787	100
.020	(0.508)	A00783	A00788	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A00819	A00824	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A00798	A00808	10
.017 x .025	(0.432 x 0.635)	A00800	A00810	10
.018 x .022	(0.457 x 0.559)	A00801	A00811	10
.018 x .025	(0.457 x 0.635)	A00802	A00812	10
.019 x .026	(0.483 x 0.660)	A00803	A00813	10



Maxillary Anterior Torquing Arch (Debnam)

	.018" (0.457mm)	.020" (0.508mm)	Package Contains
TRU-CHROME® Stainless Steel	E00610	E00611	5



TRU-CHROME® Stainless Steel Wire ● Round, 14" (35.56cm) Lengths

Size Inch	(mm)	Resilient Wire	Package Contains
.010	(0.254)	E00003	30
.011	(0.279)	E00004	30
.012	(0.305)	E00005	30
.014	(0.356)	E00007	30
.016	(0.406)	E00009	30
.018	(0.457)	E00010	20
.020	(0.508)	E00011	20
.022	(0.559)	E00013	20
.024	(0.610)	E00014	20
.025	(0.635)	E00015	10
.028	(0.711)	E00016	10
.030	(0.762)	E00017	10
.032	(0.813)	E00018	10
.036	(0.914)	E00019	10
.040	(1.016)	E00020	6
.045	(1.143)	E00021	6
.050	(1.270)	E00022	5
.060	(1.524)	E00024	5

TRU-CHROME® Stainless Steel Wire ■ Square (Square cornered), 14" (35.56cm) Lengths

.016 x .016	(0.406 x 0.406)	E00313	10
.017 x .017	(0.432 x 0.432)	E00314	10
.019 x .019	(0.483 x 0.483)	E00092	10

**TRU-CHROME® Stainless Steel Wire ■ Rectangular (Square cornered),
14" (35.56cm) Lengths**

.016 x .022	(0.406 x 0.559)	E00098	10
.017 x .022	(0.432 x 0.559)	E00099	10
.017 x .025	(0.432 x 0.635)	E00311	10
.018 x .022	(0.457 x 0.559)	E00096	10
.018 x .025	(0.457 x 0.635)	E00097	10
.019 x .026	(0.483 x 0.660)	E00095	10
.021 x .025	(0.533 x 0.635)	E00090	10
.0215 x .028	(0.546 x 0.711)	E00091	10

**TRU-CHROME® Stainless Steel Wire ■ Rectangular (Round cornered),
14" (35.56cm) Lengths**

.018 x .025	(0.457 x 0.635)	E00103	10
.019 x .026	(0.483 x 0.660)	E00107	10
.021 x .025	(0.533 x 0.635)	E00105	10
.0215 x .028	(0.546 x 0.711)	E00106	10

TRU-CHROME® Stainless Steel Wire ■ Flat Ribbon Arch, 14" (35.56cm) Lengths

.010 x .020	(0.254 x 0.508)	E00110	20
.015 x .028	(0.381 x 0.711)	E00116	20
.015 x .036	(0.381 x 0.914)	E00117	20



**TRU-CHROME® Stainless Steel Retainer Wire ● Round,
14" (35.56cm) Lengths, No. 2 Temper**

- Retainer Wire, No. 2 Temper is softer than arch wire, which enables the operator to more easily form the wire into retainer appliances
- Forming of the wire work-hardens the wire and provides a working resiliency for those types of appliances

Inch	Size (mm)	Order Number	Package Contains
.028	(0.711)	E00080	10
.030	(0.762)	E00081	10
.032	(0.813)	E00082	10
.036	(0.914)	E00083	10
.040	(1.016)	E00084	6

**TRU-CHROME® Stainless Steel Retainer Clasp Wire ● Round,
12" (30cm) Lengths, Clasp Wire Temper**

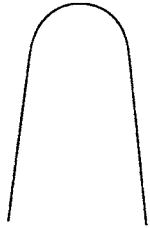
- Clasp Wire Temper is between the resilient arch wire and the retainer wire
- It is soft enough to be instrument formed to the clasp configuration
- Forming gains sufficient hardening for the pliering to have satisfactory spring resiliency for clasp

Inch	Size (mm)	Gauge	Round	Half Round	Package Contains
.028	(0.711)	21	E00065		5
.032	(0.813)	20	E00064		5
.036	(0.914)	19	E00063		5
.040	(1.016)	18	E00062		5
.057	(1.448)	15		E00071	5
.064	(1.626)	14		E00070	5



TRI-FLEX™ Twisted Wire

Tri-Flex (3 strands) is spring-tempered, twisted leveling wire for early treatment stages. It bends readily and can accept great deflection before its limit is reached. It provides gentle force and will not unravel or fray when cut.

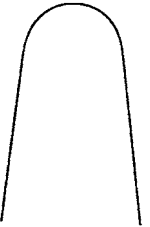


Inch	Size (mm)	Order Number	Package Contains
ROUND (14" (35.56cm) STRAIGHT LENGTHS)			
.0155	(0.394)	E00175	10
.0175	(0.445)	E00176	10
.0195	(0.495)	E00177	10
.0215	(0.546)	E00178	10
ROUND (PREFORMED ARCHES)			
.0155	(0.381)	E00170	10
.0175	(0.445)	E00171	10



SUPRA-FLEX™ Twisted Wire

Supra-Flex (6 strands) is cable-designed, initial stage arch wire with five exterior wires helically-wound around a core wire. It can be flexed to a great degree without taking a set. It delivers constant uniform light force over a long period of time and does not fray when cut.

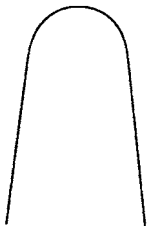


Inch	Size (mm)	Order Number	Package Contains
ROUND (14" (35.56cm) STRAIGHT LENGTHS)			
.0155	(0.394)	E00179	10
.0175	(0.445)	E00180	10
.0195	(0.495)	E00181	10
.0215	(0.546)	E00182	10
ROUND (PREFORMED ARCHES)			
.0155	(0.394)	E00183	10
.0175	(0.445)	E00184	10
ROUND 30' (9.14m) SPOOLS			
.0155	(0.394)	E00187	1
.0175	(0.445)	E00188	1
.0195	(0.495)	E00189	1
.0215	(0.546)	E00190	1

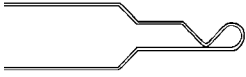


FLEX-VIII™ Braided Wire

Flex-VIII (8 strands) is a braided wire for unscrambling and leveling.



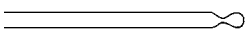
Inch	Size (mm)	Order Number	Package Contains
SQUARE (PREFORMED ARCHES)			
.016 x .016	(0.406 x 0.406)	E01400	10
RECTANGULAR (PREFORMED ARCHES)			
.016 x .022	(0.406 x 0.559)	E01401	10
.017 x .025	(0.432 x 0.635)	E01403	10
.018 x .025	(0.457 x 0.635)	E01404	10
.019 x .025	(0.483 x 0.635)	E01405	10



Preformed Auxiliary Ligature Tie Hooks (Kobayashi type)

- Stainless steel
- Quickly and easily tied in place without removing arch wire
- Spot welded to form hook
- Slipped under tie wing and tied
- Hooks adapt to up/down usage

Inch	Size (mm)	Order Number	Package Contains
.012"	(0.305)	A01202	100
.014"	(0.356)	A01203	100



Preformed Ligature Wire

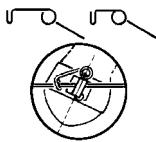
- Stainless steel – dead soft
- Precise convenient shape for quick use

Inch	Size (mm)	Order Number	Package Contains
.008"	(0.203)	E00700	1,000
.009"	(0.229)	E00701	1,000
.010"	(0.254)	E00702	1,000
.011"	(0.279)	E00703	1,000
.012"	(0.305)	E00704	1,000



Ligature Wire, TRU-CHROME® Stainless Steel - Dead soft

1 OZ. (28.4g) SPOOL				1 LB. (.454kg) SPOOL			
Inch	Size (mm)	Order Number	Package Contains	Inch	Size (mm)	Order Number	Package Contains
.007"	(0.178)	E00120	1				
.008"	(0.203)	E00121	1				
.009"	(0.229)	E00122	1	.009"	(0.229)	E00133	1
.010"	(0.254)	E00123	1	.010"	(0.254)	E00134	1
.011"	(0.279)	E00124	1	.011"	(0.279)	E00135	1
.012"	(0.305)	E00125	1	.012"	(0.305)	E00136	1
.014"	(0.356)	E00126	1				
.015"	(0.381)	E00127	1				
.016"	(0.406)	E00128	1				
.018"	(0.457)	E00129	1				
.020"	(0.508)	E00130	1				




Paralleling Spring (von der Heydt)

Stainless steel, high resiliency, light wire technique; for maximum control of root paralleling from anteriors to bicuspid.

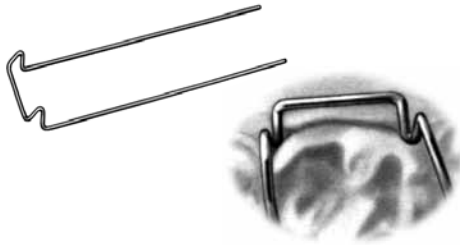
Inch	Size (mm)	Position	Short Arm Length	Package Contains
.014	(0.355)	UR/LL	$\frac{3}{5}$ $\frac{5}{3}$	A00854 10
.014	(0.355)	UL/LR	$\frac{5}{3}$ $\frac{3}{5}$	A00855 10

Ball Retainer Clasp, TRU-CHROME® Stainless Steel

	Stem Diameter	Ball Diameter	Order Number	Package Contains
	.024" (0.610mm)	.044" (1.12mm)	A00290	10
	.032" (0.813mm)	.058" (1.47mm)	A00291	10
	.040" (1.016mm)	.074" (1.905mm)	A00296	10

Adams Clasp, TRU-CHROME® Stainless Steel

- Preformed modified arrow clasp form
- May be used as is or adapted to contact tooth surface according to Adams' technique
- Manufactured loop set at 20° angle for better interproximal slippage
- Clasps are measured midline of loop to midline of loop



Mesial Distal	Order Number	Package Contains
(6mm)	A00250	10
(7mm)	A00251	10
(8mm)	A00252	10
(9mm)	A00253	10
(10mm)	A00254	10
(11mm)	A00256	10

"J" Clasp - Stainless Steel

- Provides retention below the marginal crest of the tooth



Size	Order Number	Package Contains
.032" (0.813mm)	G00042	10
.040" (1.016mm)	G00050	10
.047" (1.194mm)	G00055	10

Retainer Cases



- Made of high impact polypropylene, prevents breakage
- Easy-open finger holds with durable hinge and positive-click closure
- Built-in keyhole to carry on key chain or backpack
- Ventilation holes that prevent odors
- Standard size holds upper or lower retainers or a positioner
- Lab size holds bionators or special lab appliances

	Color	Order Number	Package Contains
Standard Size	Tropical Pink	J01320	20
	Melon	J01321	20
	Berry Blue	J01322	20
	Metallic Black	J01323	20
Lab Size	Berry Blue	J01324	12