

SPRINGS AND LIGATURE

16.0. SPRINGS

Stainless Steel Springs

An economical offering, Stainless Steel springs provide high initial forces however, unlike the forces of our premium Nickel Titanium spring, Stainless Steel forces decrease rapidly with tooth movement, Stainless Steel springs are also subject to taking a permanent set when fully compressed or expanded

- Manufactured of 304V Stainless Steel.
- Spooled 40 inch springs allow for convenient chair side sizing.
- Extension springs are effective in maintaining space openings.
- Compression springs are most commonly used to create space.

SPRINGS

<i>Close Springs</i>	
Code	Size
AE100-001	.010 x .030
<i>Open Compression Springs</i>	
Code	Size
AE100-003	.010 x .030
AE100-004	.010 x .036



16.1. Compression Open Coil Nitinol Springs

Compression, or Open Coil, springs are used to create space between teeth. Compressed during placement, the spring then exerts continuous force against the teeth as they return to original length. NiTi compression springs are available in both Variable and Superelastic forces. As further explained in Spring Basics, the tooth-moving force of variable force springs gradually decreases over the activation range. The tooth-moving force of Superelastic force springs remains near constant over the activation range. To accommodate your doctors' preferences, we offer a wide variety of variable and Superelastic springs with force levels from light to heavy.

- Made of premium Nickel Titanium wire.
- Provide continuous forces throughout activation.
- Virtually no permanent deformation with proper usage.
- Wide range of forces available.

Force	Size	Length 7"
Light	.010 x .030	AE100-011
Medium	.012 x .030	AE100-012
Heavy	.014 x .030	AE100-013



16.2. NiTi Distalizing Open/Closed Coil

Distalize molars easily with optimum patient comfort. No headgear or lip bumper! Nickel Titanium Distalizing Springs are a great alternative for non-compliant patients! The gentle, constant force moves molars with ease. Available in length or spools to allow for customized lengths.

- Distalize molars without dependence on patient's compliance
- Nickel Titanium provides gentle, near-constant force
- Easily slides onto any size arch-wire
- Cut between the closed coils to desired length

Distalizing Springs 7 inch. Lengths (3 per tube) and 15 inch spools

	Spring Sizes	Length 7"	Spool 15 "
Superelastic Medium:	.010 x .045	AE100-021	AE100-024
Superelastic Heavy:	.012 x .045	AE100-022	AE100-025

DISTALIZING SPRINGS

Open-coil and closed-coil springs.



16.3. NiTi Extension

Continuous forces to close or maintain space

Extension, or Closed Coil, springs are used to maintain or close spaces.

A&L offers extension springs in popular length with pre-attached Key-end™ eyelets. Our Key-ends are attached firmly for easy attachment to TADs (Temporary Anchorage Devices), hooks, or brackets to retract teeth. A&L offers Nickel Titanium Extension Springs in both Variable and Superelastic forces. Variable Extension Springs, our most popular, provide gentle tooth-moving forces that gradually decrease during retraction. Superelastic Extension Springs provide near constant tooth-moving forces throughout their activation range.

- Springs are made of premium Nickel Titanium wire
- Provide continuous retraction forces throughout activation
- Securely attached, precision designed stainless steel Key-end eyelets for easy attachment.
- Virtually no permanent deformation with proper use.
- Recommended activation length is two times original spring length.

Variable Force

Spring Size	6mm	9mm	12mm	15mm
.010 x .030	AE100-050	AE100-055	AE100-061	AE100-065
.011 x .030	AE100-051	AE100-056	AE100-062	AE100-066
.012 x .030	AE100-052	AE100-057	AE100-063	AE100-067

Extension Spring: 6mm, 9mm, 12mm, 15mm, lengths
(all with Key-ends) with attached key-end™ Eyelets Pkg. 10



- The greater the wire size,
- The higher the force.
- The smaller the inside diameter (lumen), the higher the force.
- The shorter the length (# of active coils) the higher the force.

16.4. Neet Separating

Quick Easy separation

Nickel Titanium Neet separating springs provide the optimal force to quickly create banding space. Results can be expected in as little as 24 hours! Offered in two sizes, they are sized appropriately for separating bicuspids and molars. Easy to insert and remove, the doctor will love the convenience:



- Made of high quality, polished .018 Nickel Titanium wire
- Light, continuous forces to separate bicuspids or molars.
- Create space for banding without the use of abrasive strips or elastomeric separators.
- Easy to place and remove.
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NEET SPRINGS (.018)

Code	Size
AE100-150	Small (Bicuspid)
AE100-151	Large (Molar)

16.5. Goodman Torqueing Spring

Single Tooth Torqueing STOP RELAPSE BEFORE IT HAPPENS

One major cause of orthodontic relapse is improper root alignment. The GTS (Goodman Torqueing Spring) is a fast and easy way to stop relapse from happening before it happens. The GTS applies labial or lingual root torque to any tooth except molars to align the roots. It may be placed anywhere on the arch wire to move the roots of tipped teeth into alignment. The GTS springs are made of .013 high tensile stainless-steel wire and will crimp to any stainless or Beta-T-rectangular wire from .016x.016 to .017x.025.

- Finish cases Faster
- Minimize Relapse
- Achieve "true" labial or lingual root torque.
- Apply torque to any tooth from Centrals to 2nd Bicuspids Upper or Lower.
- Adjustable torque by crimping spring to flat side of the wire or at a 45-degree angle
- Work with all rectangular or square wire from .016 x .022 to .021 x .025
- GTS spring delivers torque forces from 125 grams to 150 grams.
- GTS is made of .012 high tensile stainless steel wire

Available in Two Sizes

AE270-100 Small for Upper Laterals & Lower Anterior

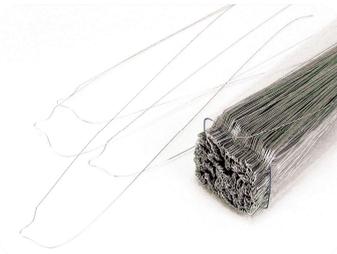
AE270-101 Large for Upper & Lower Cuspid and Upper Centrals

AE270-104 Kit includes 5 small 5 large springs and GTS

Plier **AE800-087**



16.6. Ligature Wires and Kobayashi Ties



Our Preformed Ligature and Kobayashi products are made of annealed 304 Stainless Steel to ensure consistent shape and predictable performance. Used in place of elastic ligatures, your customers will appreciate the ease with which they can be placed over the bracket and tied.

Preformed Ligature Wires ensure a quick tight tie with just a twist!

- No loss of force, as with elastomeric ligation.
- Available in long form for custom fit to the application.
- Can be used for lace back and appliance attachment.
- Also, convenient for securing to prevent unwanted rotation during TAD

treatment.

- Short pre-formed ligatures have pre-twisted ends which allow for even faster placement.
- Sold in packs of 1000, except for .014 wire which is sold in packs of 500.
- Also available in 1 lb. spools.

Wire Sizes	Preformed Long Approximately 6 in long Code	Preformed Short: Approximately .50 in long Code	Spooled 1 lb. Only on request Code
.009	AE227-109		
.010	AE270-110	AE270-211	AE270-311
.011	AE227-111		
.012	AE270-112		AE270-312
.014	AE270-113		



KOBAYASHI TIES

- Provide a quick tying feature with a preformed hook.
- Spot welded to form a secure hook.
- Allows for quick attachment of springs.
- Perfect for elastic attachment.

Sold in packs of 100.

Wire Sizes	Preformed Long Code	Preformed Short Code
.012	AE270-001	AE270-012
.014	AE270-002	AE270-013
.014 tooth color	AE270-003	AE270-014

