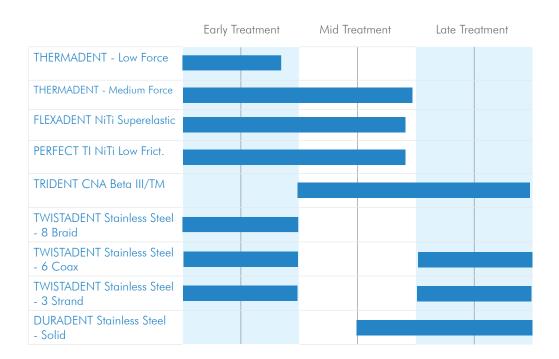


Choosing The Best Wire For The Application



Nickel Titanium Heat Activated - THERMADENT™

THERMADENT™ wires are shape memory, heat-activated wires.

Shape memory properties exhibited by heat-activated, or thermal, Nickel Titanium wires:

- Superb flexibility at room temperature, allowing for even easier ligation. Soft in the hand.
- Very responsive to chilling.
- Gentle forces are initiated by intraoral heat and remain consistent throughout treatment.
- Noticeably more comfortable for the patient due to low forces.
- Allows for patient to control discomfort with cold water rinses.

Nickel Titanium Superelastic - FLEXADENT™

(NiTi -approximately 55% Ni and 45% Ti):

 $\mathsf{FLEXADENT}^\mathsf{TM}$ - Ideal for alignment and leveling in early to mid-stages of treatment. All NiTi wires exhibit a unique "Superelastic" behavior.

Superelastic behavior provides:

- Light to moderate, consistent forces.
- Responsiveness to chilling.
- Near consistent force over a long activation period.
- Greater patient comfort over Stainless Steel wires.
- Excellent resiliency, resulting in high resistance to permanent set.
- High flexibility.
- Leveling, torque, and rotation can be addressed simultaneously early in treatment. No need to treat each of these individually, as is the case if using Stainless Steel wires.

Choosing The Best Wire For The Application - continued

Nickel Titanium - PERFECT-Ti™

(NiTi -approximately 55% Ni and 45% Ti):

Your customers will love the efficiency of our PERFECT-Ti™ superelastic premium wires! adenta developed this ultra smooth, hard black surface nickel titanium wire engineered specifically for reduced friction and efficient tooth movement.

- 30% less friction than traditional Nickel Titanium wire provides improved sliding mechanics.
- Our highest force Superelastic NiTi wire.
- Hard surface is an integral part of the wire; not a coating.
- Black color nearly indistinguishable from other wires when in the mouth.
- Very resilient.
- Ideal for self-ligating brackets.

CNA BETA III/TM - TRIDENT™

(A titanium molybdenum wire composed of 79% Ti, 11% Mo, 6% Zr, and 4% Sn):

The characteristics of our custom designed, nickel-free Beta III Titanium wire make this perfect for use in mid- to late stages of treatment where space closure, rotation, and proper molar relationship are the goal.

- CNA Beta III/TM significantly outperforms TMA Beta III and easily accepts 1st and 2nd order bends without the known breaking issues.
- Nickel-free! Eliminates treatment concern of nickel sensitivity in patients.
- · Excellent formability allows easy fabrication of loops and bends for space closure and tooth movement.
- Easily accepts 1st and 2nd order bends for tipping and aligning.
- Very good resiliency as compared to Stainless Steel.
- Approximately half the tooth-moving force of Stainless Steel.
- Excellent finishing wire.
- Retainer and appliance fabrication is easy with our CNA Beta III/TM 14" lengths

Stainless Steel Solid - DURADENT™

Our archwires are manufactured from medical grade 304V Stainless Steel material (70% Fe, 19% Cr, 9% Ni, 1.5% Mn, 0.5% Si). These archwires can be used throughout treatment but are best suited for mid - to late stages of treatment.

- Superior surface finish.
- Higher force and limited resiliency as compared with Beta III CNA™ wire.
- · Forces drop quickly; best suited as a finishing wire.
- Easy to bend
- Greater patient discomfort when used in early treatment stages.

Stainless Steel Multi-strand - TWISTADENT™

adenta's three types of multi-strand wires made of medical grade Type 302SS (71% Fe, 18% Cr, 9% Ni, 1% Mn, 0.5% Si) are well suited for early stages of treatment as well as the finishing stage of detailing and retention. Lower forces and better resiliency than solid Stainless Steel.

- TWISTADENT™ 3d-strand (twisted) wire provides moderate forces and limited flexibility.
- TWISTADENT™ Coax (6-strand) wire provides lighter to moderate forces and slightly better resiliency than 3-strand.
- TWISTADENT™ (7-strand) provides light forces
- TWISTADENT™ 8-Braid wire provides the lightest forces of the multi-strand Stainless Steel wires, with relatively good resiliency.



Packaging Options:

Wire pouch 5/10/25 wires per pouch

Individual packaging also available in plain white envelopes. Please specify your pouch

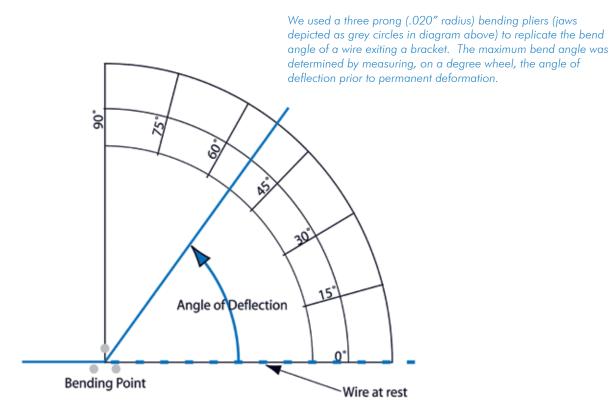
Please note: Mushroom and Looped wires are not available in new pouch option.





Nickel Titanium Maximum Bend Angles

NiTi is so resilient that it is tempting to bend it just a little more: but, how far can it go without being over-stressed and permanent deformations is introduced?



Maximum Bend Angle Guide

75°	70°	.012 60°	.013 wire					
			50°		.016	016 and .018 wire		
				45°		.020 , .016 x .016 , .016 x .022 , .016 x .025 , and .017 x .025 wire		
								43°
						40° .021 x .025 wire		

NOTE: This data is for approximate reference only. Actual bend angles will be dependent upon specifics of a particular case. Actual wire dimension, bracket position, slot edge radius, wire span, and ligating techniques, etc. will all affect maximum bend angle.