

SINGAPORE SMART TECH PTE LTD

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Tel: 65-66847928 Mobile: 65-92995891 Fax: 65-66847921

Email: sales@singaporesmart.com.sg
Co registration No. : 200913982M









We care about quality!

Strong Professional Background

- More than 20 years scholarly experience in NiTi Material Science.
- World-class professional material experts R&D team.

Rich Production Experience

• 18 years production history, focus on orthodontic products.

Characteristics of Our QA System

- Total quality management.
- Fully documented in every aspects.
- Effective traceability on products and materials.
- Proactive work attitude.

Production Control

- The proper operation, condition, notes, equipments and working area have been thoroughly studied.
- The approved operation process, equipment and staff are recorded properly. Keep proper marking or data for the verification to facilitate the control.
- Materials and products are traceable in the all stages of production.
- Random and regular inspection are in place for each project.











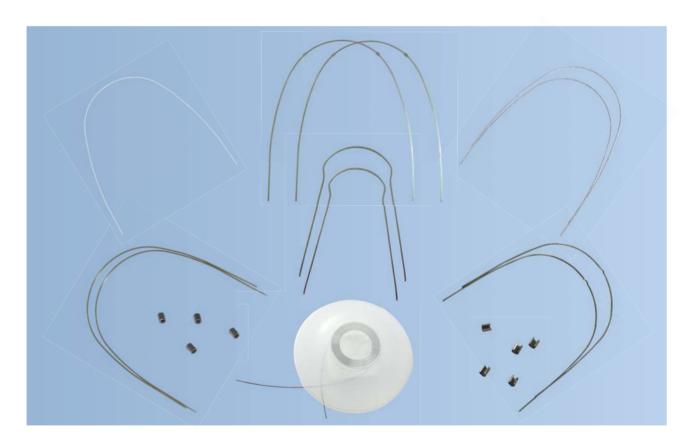
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Singapore Smart Tech Pte Ltd(SST) is incorporated in Republic of Singapore. The principal activity of SST is to supply high-standard regular and customized orthodontic self ligating brackets and wires to orthodontists for their personalized demands.

With know-how in self ligating brackets & wires and deep understanding in customers' need, we deliver the most advanced and the best quality orthodontic products to our customers. And we never stop persuing innovation!

WE ONLY MANUFACTURE QUALITY PRODUCTS!



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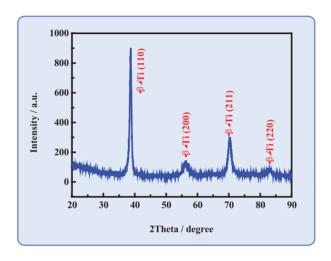
CERTIFICATES



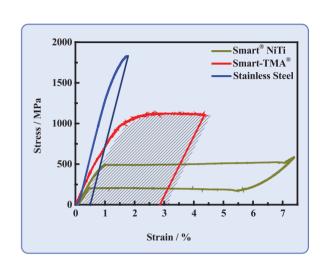




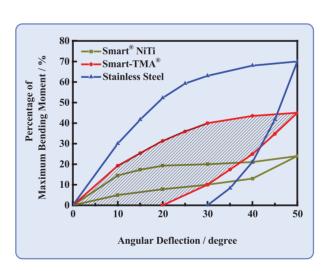
TECHNICAL INFORMATION



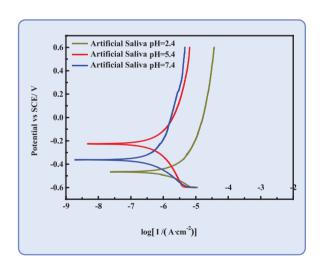
The XRD Spectrum of Smart-TMA® orthodontic wire



Stress-Strain curves of Smart[®] NiTi alloy, Smart-TMA[®] and Stainless Steel orthodontic wires



Bending moment-deflection curves of Smart[®] NiTi alloy, Smart-TMA[®] and Stainless Steel orthodontic wires



Anodic curves of Smart-TMA® in artificial saliva

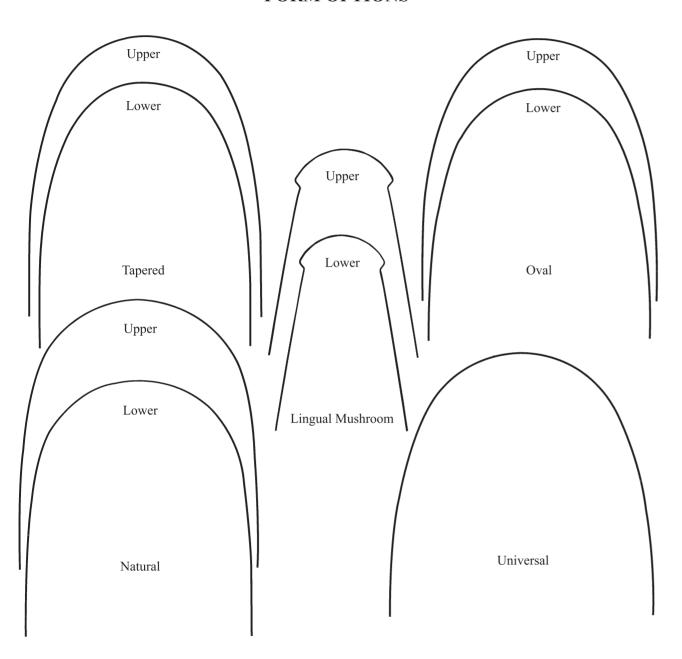


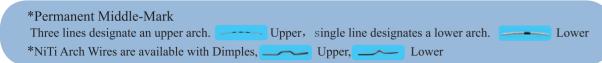






FORM OPTIONS





We supply arch wires with more than 30 arch forms, please contact us with any of your requests. Customized arch form development is available!

SMART-TWIST® NITI ARCH WIRE AND STRAIGHT LENGTH

Smart-Twist[®] NiTi wire is a 7-strand coaxial wire, both round and rectangular wires are available, special processed to prevent unwinding.

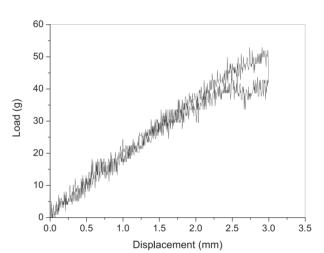
Excellent anti-deformation property, wire shape maintains unchange during the whole therapeutic period. Extraordinary soft and elastic wire with gentle therapeutic force, which is the optimal option as the initial wire. The Smart-Twist[®] Rectangular NiTi Wire is with low stiffness and high resilience while providing precision torque control.

Unique wire structure and special polished wire surface for enhanced sliding mechanics. Minimized patient's discomfort.

To prevent the unwinding of wire after being cut, please handle it with Smart® Titanium Stopper®.

Three Point Bending Test of Smart-Twist® NiTi Wire (7-strand)

Wire Size: 018









Round: .012", .014", .0155", .016", .0175", .018", . .0195", .020", .0215"

Square & Rectangular: .014"x.025",.016"x.016"x.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025",









DOUBLE-EFFICACY ARCH WIRE

Precisely produced from a single piece of wire.

The anterior part of the wire is square or rectangular for perfect incisor torque control.

The posterior part of the wire is round for minimized friction.

Made from high quality materials with NiTi, Smart-TMA, or Stainless Steel for different strength and stiffness requests.

Available in all Smart arch forms.

Square or rectangular anterior for minimized friction

perfect torque control

Square or rectangular Anterior Length: 34/38 mm for upper arch wire, 26/28 mm for lower arch wire.

Wire sizes available in:

| Anterior Size(square/rectangular) | Posterior Size(round) |
|-----------------------------------|-----------------------|
| .018"x.018" | .018" |
| .020"x.020" | .020" |
| .022"x.022" | .022" |
| .017"x.025" | .017" |
| .018"x.025" | .018" |
| .019"x.025" | .019" |
| .021"x.025" | .021" |

LIGHT FORCE NITI ARCH WIRE

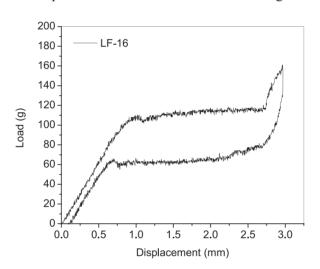
Light Force NiTi Arch Wire provides light and ideal therapeutic force which maintains steady strength during the whole treatment period.

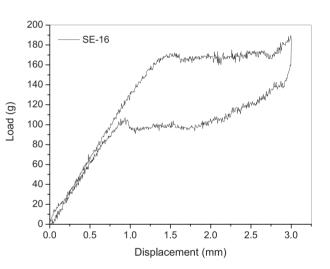
Easy engagement, even for severe situation.

Permanent deformation resistant.

Desirable therapeutic effect, less patient's discomfort.

A comparation on Force Value Curves of Light Force Wire and SE Wire.





Light Force Wire 016

SE Wire 016

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular: .014"x.025",.016"x.016"x.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022",

.018"x.025",.019"x.025",.020"x.020",.021"x.025"







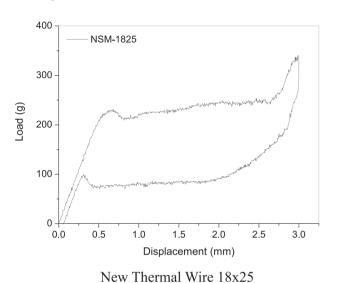


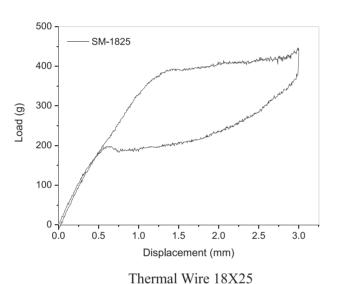


NEW THERMAL ACTIVATED NITI ARCH WIRE

New Thermal Activated NiTi Arch Wire is an innovative thermal wire which providing lower and constant therapeutic force.

A comparison on Force Value Curves of New Thermal Wire and Thermal Wire.





Superior thermal performance and sensitivity.

Easy ligation processing.

Constant therapeutic force during whole orthodontic treatment for a better therapeutic effect.

Less patient's discomfort.

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"



STEPPED-FORCE® NITI ARCH WIRE

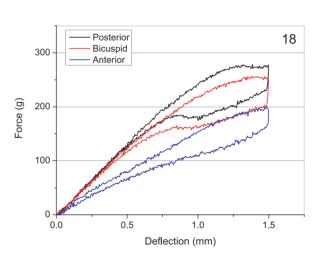
A combination of super elastic and thermal activated capabilities on one wire.

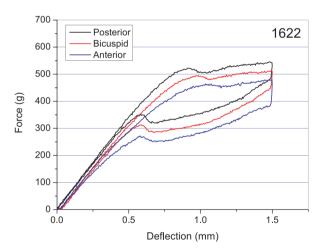
Stepped-Force[®] NiTi Arch Wire is **thermal activated** at anterior which provides light therapeutic force, super elastic at posterior which provides heavier therapeutic force, bicuspid is at intermediate.

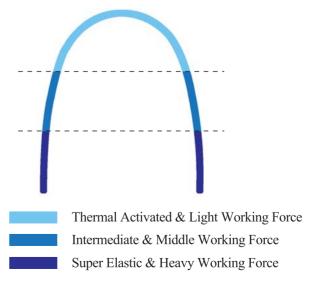
The therapeutic force is progressively increasing as from the anterior towards posterior. Ideal regional forces perfectly match tooth structure.

The arch form and three functional regions of Stepped-Force® NiTi Arch Wire can be customized and personalized upon request.

Force Value Curves of Stepped-Force NiTi Arch Wires 018 and 16x22







Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"









TITANIUM WIRE STOPPER®

Supplied in two types: Crimpable Stopper[®] and Plain Stopper[®] (tubular-like Stopper[®]).

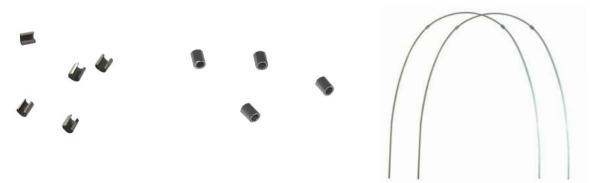
The Titanium Stopper[®] is the wire accessary placed on a wire to stop the arch wire from sliding or moving into the slot of the bracket. It can be also used for preventing the Twist wire from unwinding after being cut.

Made from 100% pure Titanium.

Superior biocompatibility.

Pliable and tough, easily to be clamped on the wire.

Please use only flat-jawed instrument to clamp the Titanium Stopper® on to a wire.



Ti Stopper® Sizes (Crimpable and Tubular)

Crimpable Ti Stopper[®] A for wire: .010" .012", .014", .016", .018", .020", .016"x.016"

Crimpable Ti Stopper[®] B for wire: .014"x.025",.016"x.022",.016"x.025",.017"x.022", .017"x.025",.018"x.018"x.018"x.022",.018"x.025",.019"x.025",.020"x.020",.021"x.025"

Tubular Ti Stoper[®] I for wire: .010", .012", .014"

Tubular Ti Stoper[®] II for wire: .016", .018", .020"

Tubular Ti Stoper[®] Ⅲ for wire: .016"x.016"

Tubular Ti Stoper® IV for wire: .016"x.022", .017"x.022", .018"x.018"

Tubular Ti Stoper® V for wire: .018"x.022", .014"x.025", .020"x.020"

Tubular Ti Stoper[®] VI for wire: .016"x.025", .017"x.025", .018"x.025"

Tubular Ti Stoper® VII for wire: .019"x.025", .021"x.025"

SUPER ELASTIC NITI ARCH WIRE

Super Elastic NiTi Arch Wire is with extra smooth finish which reduces friction and makes the patient more comfortable. As an ideal orthodontic material, the NiTi Arch Wire provides higher elasticity with lower rigidity, therefore it shows excellent effect in treating with its gentle and consistent recovery force and brings a much shorter therapeutic period.

THERMAL ACTIVATED NITI ARCH WIRE

Thermal Activated NiTi Arch Wire is soft at room temperature, and it returns to its original shape gently at body temperature. Using a wire chilling process to help the orthodontists deform the wire easily before engaging it to the bracket, and then the wire will provide remarkable activation force when heated up by body temperature.

Super Elastic NiTi Arch Wire is available in:

Thermal Activated NiTi Arch Wire is available in:

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025" Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025",.017"x.022",.017"x.025",.018"x.018",.018"x.022",.018"x.025",.019"x.025",.020"x.020",.021"x.025"



^{*} Stopper® can be supplied separately or pre-waxed on any arch wires.









NITI REVERSE CURVE

Mainly applied for correcting grievous malocclusion, it provides a consistent gentle force with minimum affliction.

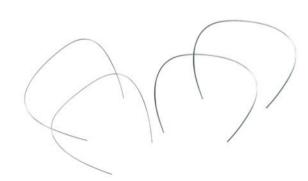
NiTi Reverse Curve is available in:

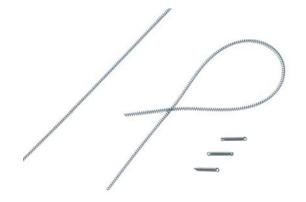
Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"





NITI COIL SPRING

Super resilient Extremely durable

| Nitinol Open Coil Spring | | | | | |
|--------------------------|--------------------|---------------------|-------------------------|-------------|--|
| Specification | Wire ϕ (inch) | Inner ϕ (inch) | Length (inch/ mm) | ITEM NUMBER | |
| NiTi Open | | 0.030 | 7/178 | OS-10-30-7 | |
| | | | 15/381 | OS-10-30-15 | |
| | | | 21/533 | OS-10-30-21 | |
| | | 0.036 | 7/178 | OS-10-36-7 | |
| | 0.010 | | 15/381 | OS-10-36-15 | |
| | | | 21/533 | OS-10-36-21 | |
| | | 0.045 | 7/178 | OS-10-45-7 | |
| | | | 15/381 | OS-10-45-15 | |
| | | | 21/533 | OS-10-45-21 | |
| Coil | | 0.030 | 7/178 | OS-12-30-7 | |
| Spring | | | 15/381 | OS-12-30-15 | |
| | | | 21/533 | OS-12-30-21 | |
| | 0.012 | 0.036 | 7/178 | OS-12-36-7 | |
| | | | 15/381 | OS-12-36-15 | |
| | | | 21/533 | OS-12-36-21 | |
| | | 0.045 | 7/178 | OS-12-45-7 | |
| | | | 15/381 | OS-12-45-15 | |
| | | | 21/533 | OS-12-45-21 | |

| Nitinol Closed Coil Spring | | | | | | |
|----------------------------------|---------------------|---------------------|-------------|-------------|--|--|
| Specification | Wire φ (inch) | Inner ϕ (inch) | Length (mm) | ITEM NUMBER | | |
| NiTi Closed Coil Spring | 0.010 | 0.030 | 6 | CS-10-30-6 | | |
| | | | 9 | CS-10-30-9 | | |
| | | | 12 | CS-10-30-12 | | |
| | | 0.036 | 6 | CS-10-36-6 | | |
| | | | 9 | CS-10-36-9 | | |
| | | | 12 | CS-10-36-12 | | |
| | | 0.045 | 6 | CS-10-45-6 | | |
| | | | 9 | CS-10-45-9 | | |
| | | | 12 | CS-10-45-12 | | |
| | | 0.030 | 6 | CS-12-30-6 | | |
| | | | 9 | CS-12-30-9 | | |
| | | | 12 | CS-12-30-12 | | |
| | | 0.036 | 6 | CS-12-36-6 | | |
| | 0.012 | | 9 | CS-12-36-9 | | |
| | | | 12 | CS-12-36-12 | | |
| | | 0.045 | 6 | CS-12-45-6 | | |
| | | | 9 | CS-12-45-9 | | |
| | | | 12 | CS-12-45-12 | | |

The length of the closed spring indicated on the label doesn't

PRE-TORQUED NITI ARCH WIRE

- 20° torque in the anterior segment.
- Continuous translation of torque forces to anteriors.
- Anterior Length: 34/38mm for upper arch wire, 28mm for lower arch wire

Wire Sizes

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"

SMART-TWIST® STAINLESS STEEL ARCH WIRE AND STRAIGHT LENGTH

- 7-strand coaxial wire, available in round and rectangular.
- Manufactured of medical grade stainless steel, high quality surface finish.
- Alternative initial wire for Smart-Twist® NiTi Wire, Rectangular wire is also effective as a finishing wire, remaining torque but allowing vertical elastic use.



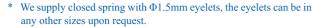


Wires Sizes

Round: .012", .014", .0155", .016", .0175", .018", .0195", .020", .0215"

Square & Rectangular:

.014"×.025",.016"×.016",.016"×.022",.016"×.025", .017"×.022",.017"×.025",.018"×.018",.018"×.022", .018"×.025",.019"×.025",.020"×.020",.021"×.025"



include the length of the eyelets.

ALL ABOUT WIRES! ALL ABOUT WIRES!









SMART-TMA® ARCH WIRE AND 14" STRAIGHT LENGTH

Nickel Free, no Nickel allergy.

Tremendous time efficiency and therapeutic effect. Providing stronger force than NiTi wire but more elastic than SS wire.

Can be shaped by orthodontists to meet their various requirements.

Smart-TMA® Arch Wire and 14" Straight Length are available in:

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"

TOOTH COLORED ARCH WIRE

Durable tooth color coating.

Extra smooth surface.

Perfect flexibility and easy to install.

The great option for your aesthetic treatment plans.

Tooth Colored NiTi or Stainless Steel Arch Wire is available in:

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016"x.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"

* Both white and beige color are available.





STAINLESS STEEL ARCH WIRE AND 14" STRAIGHT LENGTH

- Perfect arch stability and resilience, consistent performance.
- Extreme high tensile strength.
- Polished and shiny surface for reduced friction.
- All sizes and arch forms are available.

Wires Sizes

Round: .012", .014", .016", .018", .020"

Square & Rectangular:

.014"x.025",.016"x.016",.016"x.022",.016"x.025", .017"x.022",.017"x.025",.018"x.018",.018"x.022", .018"x.025",.019"x.025",.020"x.020",.021"x.025"

POSTED STAINLESS STEEL ARCH WIRE

- Ideal time saving replacement for crimpable hooks, excellent for use with springs and elastics.
- Apply with laser welding to get clear and smooth joint.
- Minimum laser heating area, no influence on SS archwire property.
- Available in various wire forms, sizes and span distance.

| Size | Span Length(mm) | | | | | | |
|-------------|-----------------|-----|----|----|----|------------|----|
| .016"x.022" | Upper | 2.4 | 26 | 20 | 40 | 42 | 11 |
| .017"x.025" | Opper | 34 | 30 | 30 | 40 | 4 ∠ | 44 |
| .018"x.025" | Lower | 22 | 24 | 26 | 28 | 30 | 32 |
| .019"x.025" | | | | | | | |



