



the beautiful, comfortable choice
for Removable Partial

For **Happier** **Patients**

Ask for tcs® Unbreakable

*Natural Looking and
Feeling Flexible Partial.*



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Who Are We

Thermoplastic Comfort Systems, Inc., was founded in 2000 and is based in Signal Hill, CA USA. We are a certified ISO 13485:2003 company, specializing in the manufacture of tcs® Unbreakable thermoplastic, an extremely resilient material used for the fabrication of removable flexible partials. Our products are sold to Dental Laboratories worldwide. Since its beginnings, tcs® Unbreakable rapidly gained popularity and has become the removable flexible partial of choice for dental laboratories and dentists.

What is tcs® Unbreakable?

tcs® Unbreakable is a high-performance thermoplastic used for the fabrication of removable flexible partials. Its unique formulation offers the ideal degree of flexibility and provides the patient a stable, retentive, aesthetic appliance that is virtually undetectable in the mouth.

***tcs® Unbreakable
restorations adjust
and flex with the
natural contours of
the mouth.***



Warranty Against Breakage

TCS, Inc. is proud to offer a product that has a lifetime warranty against breakage.

- Extensive testing and clinical history has validated that tcs® Unbreakable partials will not break under proper use.
- TCS, Inc. warrants tcs® Unbreakable against breakage or fracture due to defects in the material.
- The warranty does not apply to neglect and/or abuse of the restoration.
- The warranty does not apply to artificial teeth, nor the bond between the artificial teeth and the tcs® Unbreakable material.

Request tcs® Unbreakable from your laboratory for proven quality you can rely on!



Why Choose tcs® Unbreakable?

- **Quality You Can Trust:** tcs® Unbreakable is manufactured in the USA from the highest quality materials and under a strict quality management system that meets the ISO 13485:2003 requirements.
- **Guaranteed Unbreakable:** tcs® Unbreakable is one of the only thermoplastics available that does not break or crack. Additionally, it has a memory that is unsurpassed by other thermoplastics.
- **Lightweight and Comfortable:** tcs® Unbreakable's unique properties allow partials to be fabricated very thin without compromising durability, making them very comfortable for the patient.
- **Aesthetic:** tcs® Unbreakable blends naturally with the surrounding tissue and gums. A well designed and fabricated tcs® Unbreakable will be unnoticeable in the patient's mouth.



*Younger patients appreciate the
natural look of tcs®
Unbreakable.*

Why Choose tcs® Unbreakable? *(Continued)*

- **Biocompatible:** tcs® Unbreakable partials are biocompatible, making them ideal for patients who are allergic to monomers found in acrylic dentures.
- **Affordable:** Patients searching for an aesthetic solution without the cost associated with crown and bridge or implants can benefit from this type of restoration without compromising aesthetics. Additionally, tcs® Unbreakable is becoming very popular as a temporary during the healing period for implants.
- **Non-invasive:** Unlike permanent tooth replacement options, such as crowns/bridges and implants, tcs® Unbreakable is non-invasive, making it ideal for patients with a low threshold for pain and/or the elderly.
- **Promotional Items Available at No Charge:** We offer free tcs® patient education brochures full of helpful information for the patients, as well as posters for your office.

***SUCCESS: Millions of tcs®
Unbreakable partials have been
prescribed worldwide, and this
number is rapidly growing.***



Before and After

tcs® Unbreakable blends naturally with the patient's gum tissue.



"My tcs® Unbreakable is so comfortable; I forget that I am even wearing it. And best of all, nobody can see it; it just blends in with my gums. I would definitely recommend tcs® to anybody that needs a removable partial."

- Judy, 55 years old

When to Prescribe a tcs® Unbreakable

tcs® Unbreakable partials may be prescribed whenever a removable partial denture is being considered.

In some cases, tcs® Unbreakable in combination with metal is recommended:

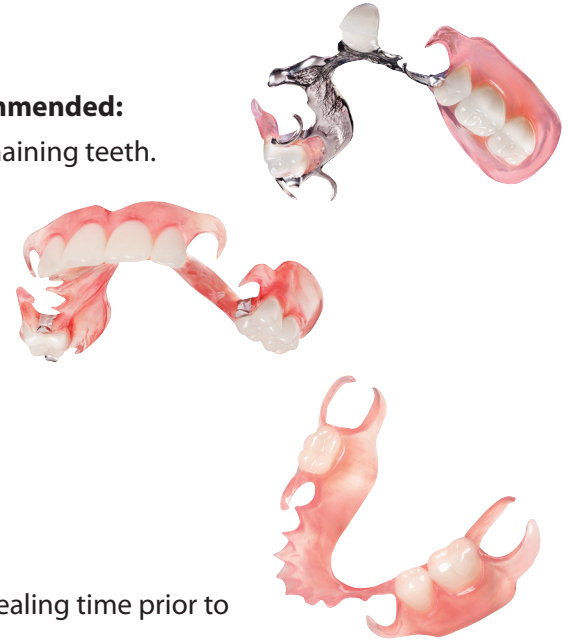
- Need for a more rigid appliance due to poor tissue support or few remaining teeth.
- Free-end saddle with teeth missing from the 1st bicuspid.

Cast rest seats:

If soft tissue is a concern, cast metal seats are also an option.

Contraindication:

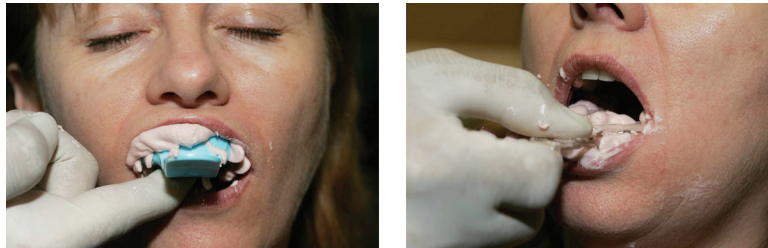
- Quality of natural teeth is too poor to support tcs® Unbreakable.
- Minimal vertical clearance, less than 3mm.
- If there is less than 4mm interproximal space in the posterior area.
- Immediate application, due to recession, please allow 8 to 10 weeks healing time prior to prescribing a tcs® Unbreakable.



Impression Taking Techniques

One of the many benefits of tcs® Unbreakable is that little to no tooth preparation is needed. The laboratory only needs a good alginate impression (poured promptly), a counter model and the bite registration.

TCS recommends a lightweight alginate material for impression taking, however, irreversible hydrocolloid, polyvinyl siloxane and polyether impressions are also suitable.



- ⇒ An accurate impression is the first step and is key to the success of a tcs® Unbreakable partial. If an alginate impression is taken, promptly pour it up using lab stone. Then take a counter-impression and a bite registration.
- ⇒ Examine the impression. The impression should have all the anatomical details for a successful tcs® Unbreakable partial. Also check for voids and air bubbles.

When Completing the Lab Slip ...

Be sure to request tcs® Unbreakable by name, and don't forget to include the gum shade as well as the tooth shade.

The image shows a completed TCS lab slip form. The top section contains the TCS logo and a 'TO PREFERRED' header. Below this, the 'TCS PROCESSING DENTAL LABORATORY' section is filled out with the following information: DR. NAME: Santiago Plaza, ADDRESS: 2689 Olive St., CITY: Orange, STATE: CA, ZIP: 92869, and PHONE: 714 869 2510. The 'PATIENT'S INFORMATION' section (Please Print) includes NAME (LAST): Watson, (FIRST): Steve, AGE: (blank), and SEX: ☒ MALE ☐ FEMALE. Below this, the 'Rx Specific Instructions' section has 'TCS Unbreakable' handwritten in blue ink. To the right of the text is a dental arch diagram with teeth numbered 1 through 18. A hand is shown holding a pen, pointing to the diagram.



Request a FREE shade guide.

tcs® Unbreakable is available in four shades:

- ⇒ Light Pink (Shade 1)
 - ⇒ Standard Pink (Shade 2)
 - ⇒ Light/Dark Pink (Shade 3)
 - ⇒ Dark Pink (Shade 4)
- } Ethnic shades

Insertion Techniques

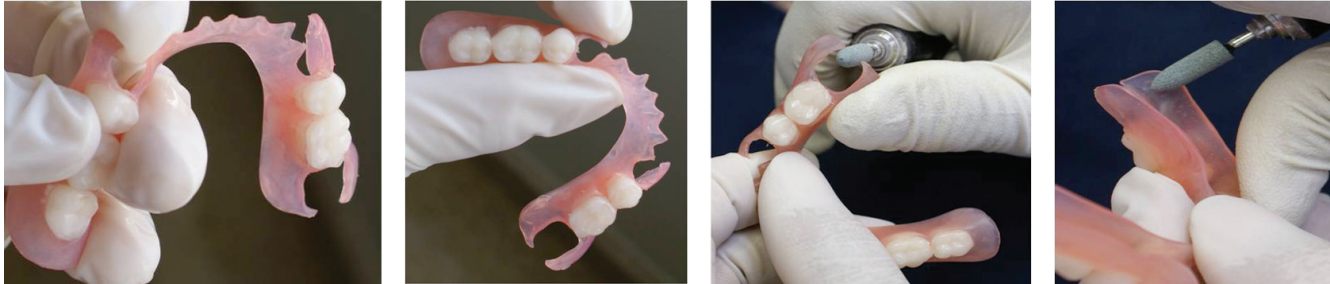
- ⇒ Examine the partial carefully on and off the master model and check the path of insertion.
- ⇒ Submerge the tcs® Unbreakable restoration in very hot tap water for approximately one minute.
- ⇒ The Hot Water Treatment is very important as it allows for a smooth initial insertion and a good adaptation with your patient's natural tissues.
- ⇒ When the partial cools to a tolerable temperature, gently insert it into the patient's mouth.



To ensure you are receiving a genuine tcs® Unbreakable appliance, be sure you receive your appliance in a tcs® branded plastic bag along with a tcs® Unbreakable Patient Care Pamphlet and that tcs® Unbreakable is indicated on the bill.



Adjustment Techniques



- ⇒ If the patient feels pain when biting down (possible reasons):
 - Open bite: check the occlusion and reduce the occlusion accordingly
 - Overextended flange: reduce the flange accordingly

Most of the time this will take care of the pain.

- ⇒ If the patient senses discomfort due to tightness of the clasp, the clasp may be loosened slightly by submerging that part in hot water for approximately 30 seconds, removing it and gently bending the clasp outward while holding it underneath running cold tap water. Following the same procedure but bending the clasp inward can also tighten the clasp.
- ⇒ There are a variety of burs that are specifically designed for thermoplastic materials.
See page 20, "Tools for Your Practice."

Adjustment Techniques *(Continued)*

- ⇒ Set your hand piece on a low speed (32,000 to 35,000 rpm) and use fast, light scraping back and forth movements to reduce area. Do not keep bur in one spot, be sure to keep it in constant motion. Do not use too much pressure as this may burn or distort the restoration.
- ⇒ Do not use the tools that are normally used for conventional removable dentures and partials as they may not be effective on thermoplastics.
- ⇒ Rubber wheels or points are ideal for making small adjustments and/or smoothing after adjustments have been made. Usually the brown rubber wheel/point will leave the case smooth and shiny and it will not be necessary to re-polish.
- ⇒ If there are threads remaining, these can be removed with a sharp blade, we recommend the tcs® Carving Knife.

***Adjusting tcs® Unbreakable is easy with
the proper tools and techniques.***

*See page 20, "Tools for Your Practice" for
recommended tools.*

Preparation for Adding Teeth

The laboratory will utilize either a welding technique (for small modifications) or an injection technique (for larger modifications and retentive additions).

- ⇒ Be sure the partial is free of any pastes or adhesives before taking the impression.
- ⇒ An alginate impression is taken with the partial in the mouth.
- ⇒ Remove the impression from the mouth with the partial in the impression.
- ⇒ Be sure the partial is fully seated in the impression material.
- ⇒ Immediately pour the model with regular yellow stone.
- ⇒ DO NOT separate the partial from the stone model.
- ⇒ Forward to the laboratory with instructions.

When you receive the case from the laboratory, follow the Hot Water Treatment for re-insertion. See page 10, "Insertion Techniques."

***"Quality is important to me and my patients.
I make sure my lab uses tcs®"***



Preparation for a Reline

The laboratory will register the position of the teeth with a plaster matrix and remove the base. A new base will be waxed up and reprocessed using the existing teeth.

In most cases where an overall reline is needed, the case is jumped into a new base

- ⇒ A rubber base impression is taken under the tcs® Unbreakable partial in a closed-mouth condition.
- ⇒ The patient closes his/her mouth gently to ensure a correct occlusion as the rubber base is setting.
- ⇒ Once the rubber base material has set, an alginate impression is taken and the impression is removed from the mouth with the partial and the rubber base in place.
- ⇒ Carefully examine the partial to assure that it is positioned correctly in the alginate material.
- ⇒ Immediately pour the model with regular yellow stone.
- ⇒ DO NOT separate the partial from the stone model.
- ⇒ Forward to the laboratory with instructions.

When you receive the case from the laboratory, follow the Hot Water Treatment for re-insertion.

See page 10, "Insertion Techniques."

Care for tcs® Unbreakable Partial

tcs® Unbreakable partials are very easy to care for.

In order to keep them looking and feeling like new, please have your patients follow these simple recommendations:

1. Continue to brush natural teeth and gums as directed.
2. Clean the restoration daily. Simply rinse restoration under warm running water in order to remove any food particles prior to soaking it in the denture cleaner.
3. With a very soft denture brush, brush restoration using water only. Rinse again.
4. Place restoration in tcs® Concentrated Denture Cleaner for at least 30 minutes per day.
5. Keep restoration in water or tcs® Concentrated Denture Cleaner when not wearing it.
6. DO NOT use bleach, toothpaste or similar cleaning products as these may scratch or discolor the surface of the restoration.

*Please provide the patient
the tcs® Unbreakable Patient
Care Pamphlet.*



FAQ's

- **Can I prescribe a full denture made out of tcs® Unbreakable?**

No, tcs® Unbreakable was specifically formulated for removable partial dentures.

- **Is tcs® Unbreakable FDA cleared?**

Yes

- **Does tcs® Unbreakable have the CE Mark?**

Yes

- **Is tcs® Unbreakable really unbreakable?**

tcs® Unbreakable has a lifetime guarantee against breakage. Extensive testing and clinical history has validated that tcs® Unbreakable will not break under proper use of the restoration.

- **When should I prescribe a tcs® Unbreakable partial?**

A tcs® Unbreakable partial can be prescribed whenever a removable partial restoration is being considered.

However, in some cases tcs® Unbreakable should be combined with a metal framework for added stability. E.g:

- ⇒ Need for a more rigid appliance due to poor tissue support or few remaining teeth.
- ⇒ Free-end saddle with teeth missing from the 1st bicuspid.

- **Is tcs® Unbreakable recommended for immediate cases?**

No, due to recession, please allow 8 to 10 weeks healing time prior to prescribing a tcs® Unbreakable.



FAQ's (Continued)

- **What type of impression material should be used?**

See page 8, "Impression Taking Techniques."

- **How long will a tcs® Unbreakable last?**

tcs® Unbreakable is designed to last a lifetime. Should modifications be needed as time goes by due to natural changes in your patient's mouth, tcs® Unbreakable partial dentures can usually be modified rather than replaced.

- **Do the abutment teeth need preparation?**

No tooth preparation is necessary when prescribing tcs® Unbreakable. The unique characteristics of tcs® Unbreakable utilize tissue undercuts and portions of abutment teeth for retention. In combination metal and tcs® Unbreakable partials, tooth preparation may be necessary for rest seats.

- **What about adding teeth and/or clasps?**

See page 13, "Preparation for Adding Teeth."

- **Can tcs® Unbreakable be relined?**

Yes, in most cases where an overall reline is needed, the case is jumped into a new base. Relining a tcs® Unbreakable is a laboratory procedure.

See page 14, "Preparation for a Reline."

ADA Insurance codes:

⇒ D5225- Maxillary partial denture*

⇒ D5226- Mandibular partial denture*

**Flexible base including any clasps, rests and teeth.*

FAQ's (Continued)

- **Do I need special tools to adjust tcs® Unbreakable?**

Conventional burs normally used on acrylic dentures may not be effective for thermoplastic materials. We offer a wide variety of tools for easy adjustment.

See pages 11 and 20, "Adjustment Techniques" and "Tools for Your Practice."

- **Can tcs® Unbreakable be used in combination with metal?**

Yes, thousands of successful combination cases have been fabricated.

- **Does tcs® Unbreakable bond with acrylic?**

No, the bond between the teeth and the base material is mechanical.

- **Are there any special instructions I should give my patient for the proper care of tcs® Unbreakable?**

tcs® Unbreakable is very easy to care for, *see page 15, "Care for tcs® Unbreakable Partials"* for optimal patient maintenance.

- **How do I know that I received a genuine tcs® Unbreakable restoration?**

You should ask for tcs® Unbreakable by name on the prescription and the laboratory that you are using should be trustworthy. Additionally, to ensure that you are receiving a genuine tcs® Unbreakable appliance, be sure your appliance is received in a tcs® branded plastic bag along with a tcs® Unbreakable Patient Care Pamphlet, and that tcs® Unbreakable is indicated on the bill.



About our Network of TCS Laboratories

We take pride in providing products of the highest quality. Our goal is to get that same high quality to the final product so that the patient can reap the benefits of a properly constructed partial denture. Hence, we developed a *Network of TCS Laboratories*.

Through this program, laboratories must apply for and meet our quality standards on a yearly basis. It is our due diligence to ensure you that we are referring laboratories that have the experience and training to offer you a high quality product.

Members of our Network of TCS Labs have demonstrated high quality fabrication of tcs® Unbreakable Partial.



Tools for Your Practice



tcs® Unbreakable Sample Case

Allow your patients to see and feel an actual tcs® restoration.

(Item #4011-01 ea.)



Green Mounted Stone

Ideal for chair-side adjustments.

(Item #4501-01 box of 100)



Rubber Points

Ideal for making minor chair-side adjustments.

Small Rubber Point (Item #4511-01 ea.)

Large Rubber Point (Item #4510-01 ea.)

Doctor Adjustment Kit

This kit includes the essential tools needed for all types of chair-side adjustments for tcs® Unbreakable Partial Dentures.

- 2 shapes of Carbide Burs (Item #'s 50251G-01 and 50C25-01)
- 2 Green Mounted Stones
- 2 Large Rubber Point
- 2 Small Rubber Point
- 1 Box of tcs® Concentrated Denture Cleaner (10 Month Supply)

(Item #4014-01 Kit)



Carbide Burs

Specifically designed to cut through thermoplastic materials. These burs are long lasting with high cutting efficiency.



Carving Knife and Replacement Blades

Ideal for removing fibers that sometimes appear on thermoplastic restorations during adjustment. The replacement blades are specific to this knife.

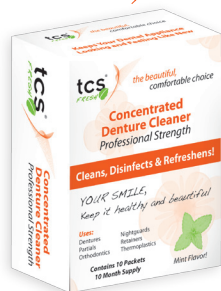
Carving Knife (Item #4201-01 ea.)

Replacement Blades (Item #4202-01) *pack of 12*

**To purchase or for pricing of items call us at 866-426-2970
or visit us at www.tcsdentalinc.com**

To purchase online follow these steps:

- www.tcsdentalinc.com
- Click on Dental Professionals
- Click on "Available for Your Practice" box (on the right)
- Scroll down and click "register here". If you already registered then simply login at the top of the website.
- Fill out information and you are now ready to view pricing and purchase.



tcs® Concentrated Denture Cleaner

For patients' at-home maintenance of dental appliances. Safely and effectively removes coffee, tea, tobacco, fruit and iron stains, tartar, plaque, calcium and calculus. Safe for use on: Dentures, Partials, Nightguards, Retainers, Thermoplastics.

(Item #4505-01 10 Month Supply)

(Item #4505FR-01 *Bulk box of 70)

Highly recommended for thermoplastics.

tcs® Sonic Cleaner

Patients can get professional results at home. The tcs® Sonic Cleaner used in combination with the tcs® Concentrated

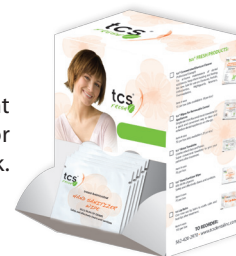
Denture Cleaner helps remove tartar, plaque, stains, bacteria and food particles with the aid of high energy cycle waves (sonic vibrations) of 5800 waves per minute. Safe for use on: Dentures, Partials, Nightguards, Retainers, Thermoplastics.

2 AA' batteries included.

(Item #4013-01 ea.)



* Convenient Gravity Box for items sold in bulk.



tcs® Cool Mint Wipe ON-THE-GO

Patients will love this quick and convenient way to clean and refresh dental appliances throughout the day.

(Item #4507FR-01 *Bulk box of 70)



tcs® Moist Towelettes

(For Your Office)

Super convenient to give your patients after treatment to refresh face and hands.

(Item #4509FR-01 *Bulk box of 70)



tcs® Hand Sanitizers

(For Your Office)

These disposable wipes are always handy to have around your office and on-the-go.

(Item #4507FR-01 *Bulk box of 70)

FREE Promotional Materials



Patient Education Brochure

Pack of 10
Item #8010-A1

tcs
TO: DENTIST
TCS PROCEDURE: INITIAL LAB WORK

DR. NAME: _____
ADDRESS: _____
CITY: _____ STATE: _____
ZIP: _____ PHONE: _____
DATE IN OFFICE BY: DR. ON: _____

PATIENT'S INFORMATION (Please Print)
NAME (LAST): _____ (FIRST): _____
AGE: _____ SEX: ☐ MALE ☐ FEMALE

Rx. Specific Instructions:

☐ UPPER
☐ LOWER

LICENSE #: _____ SIGNATURE: _____

☐ FINISH ☐ TEETH TEEN ☐ RESET TEETH ☐ BITE BLOCK

TOOTH SHADE:
PARTIAL: ☐ TCS UNBREAKABLE PARTIAL ☐ LIGHT PINK
☐ TCS COMBINATION W/ METAL FRAME ☐ STANDARD
☐ TCS UNBREAKABLE ☐ ETHNOCORAL
☐ OTHER _____

TISSUE SHADE:
☐ LIGHT PINK
☐ STANDARD
☐ ETHNOCORAL
☐ OTHER _____

WHITE - LAST COPY • YELLOW - DOCTOR'S COPY

Lab Slips

Pack of 25
Item #A082009



Poster 36" x 48"

Item #A020712



Shade Guide

Item #8015-01

**Request promotional materials at 866-426-2970
or at www.tcsdentalinc.com**

To request promotional material follow these steps:

- www.tcsdentalinc.com
- Click on Dental Professionals
- Click on Free Promotional Material box (on the right).
- Fill out information and submit.



www.tcsdentalinc.com / 866-426-2970

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