tcs

the beautiful, comfortable choice for Removable Partials

For Happier Patients

Ask for tcs® by name

Natural Looking and Feeling Flexible Partials

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

tcs® Unbreakable

About TCS

Thermoplastic Comfort Systems, Inc. (TCS, Inc.) was founded in 1998 and is based in Signal Hill, CA USA. We are a certified ISO 13485:2003 company. Our mission is to provide dentists and their patients with safe, flexible, accessible, and patient maintainable products related to removable dental prosthetics. TCS, Inc. is the first and only company to offer a complete system for removable partials in both pink and tooth colored flexible materials.

TCS, Inc. manufactures two thermoplastic resins for the fabrication of flexible partials: tcs® Unbreakable (nylon based) and Flex by tcs® (polyolefin based).

Flex by tcs® tcs® Unbreakable

Why Choose TCS?

Quality Your Can Trust: tcs® Unbreakable and Flex by tcs® are manufactured to the highest standards of quality and consistency under a strict quality management system that meets ISO 13485:2003 requirements.

Lightweight and Comfortable: tcs® thermoplastic's low properties that allow for thinner, lighter partials that are comfortable and flexible. Patients overwhelmingly prefer tcs® Unbreakable to metal partials.

Aesthetic: tcs® Unbreakable and Flex by tcs® blend naturally with the surrounding tissue and gums to create a beautiful, natural appearance. Clasps and restorations will be unnoticeable to the patient's mouth.

Biocompatible: tcs® Unbreakable and Flex by tcs® partials are biocompatible, making them ideal for patients who are allergic to monomers found in acrylic dentures.

Younger patients appreciate the natural look of tcs® Partial Dentures.

Flex by tcs® tcs® Unbreakable

Affordable: Patients searching for an aesthetic solution without the cost associated with metal-free/flexible partials can benefit from this type of restoration without compromising aesthetics. Additionally, tcs® is very popular as a transitional partial for implant patients.

Flexible: tcs® partials offer the ideal degree of flexibility, and patients find the adjustment period much smoother when compared to conventional partials.

Non-Invasive: Unlike permanent tooth replacement options such as crown/bridge and implants, tcs® partials are non-invasive, making them ideal for patients with a low threshold for pain and/or the elderly. The unique characteristics of tcs® thermoplastic cushion tissue undercuts and promote soft tissue health.

Promotional Items Available at No Charge: We offer free tcs® promotional materials including display boards, brochures, and patients, as well as posters, and an educational video for your waiting room.

Success: Millions of tcs® partial dentures have been prescribed worldwide, and this number is rapidly growing.

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tcs® Unbreakable is extremely resilient, high performing nylon used for the fabrication of flexible partials. Partials can be: 1) pre-shaded in with my gums / natural, definitely recommend tcs® to anybody that uses a removable partial"
– Judy, 51 years old

- Lightweight & comfortable
- Flexible
- Durability
- Non-invasive treatment
- Tissue friendly undercuts
- Excellent patient retention
- Translucent pink materials

Available in four translucent pink shades.

FREE Promotional Material Available. See page 3!

Natural Looking and Feeling Flexible Partials

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Warranty Against Breakage

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

- Extensive testing and clinical trials have indicated 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.

tcs® Unbreakable

Before and Afters

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

"tcs® Unbreakable is so comfortable I forget I have a partial in my mouth. I have had no issues with it and would definitely recommend it to anybody that uses a removable partial"
– Judy, 51 years old

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Before and Afters

Before: Leaving artificial spaces or has spotty dentition from California but most of her teeth in an unbelievable accident at the age of 12. Fortunately, Tiffany does not remember the accident; however, she does rarely remember the endless days in the dentist's chair undergoing extensive restorative procedures to repair the damage.

Before: Finally, a solution for partial dentures that can be worn in between the natural teeth. Tiffany was very self conscious about her unsightly smile and, as a result, she rarely smiled. After many years of wearing an uncomfortable metal and acrylic partial, Tiffany was referred to Dr. Ken Lee for a new partial denture. Dr. Lee chose tcs® Unbreakable and created a tcs® Unbreakable. Tiffany is excited about finally wearing something she can count on, look great and feel more natural.

Before

After

Flex by tcs® tcs® Unbreakable

When to Prescribe a tcs® Partial?

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

In some cases, tcs® Unbreakable or Flex by tcs® in combination with metal is recommended.

- Need for a more rigid partial denture due to poor tissue support or low remaining teeth.
- Fine cast metalic with tooth colored facing (Flex by tcs® Triumph).

Cast mid-stents:

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

Contraindications:

- Quality of natural teeth is too poor to support tcs® restoration.
- Patient is allergic to nylon or PMMA.
- If there is less than 4mm interocclusal space in the posterior.
- Immediate application, due to recession, please allow 8 to 10 weeks healing time prior to prescribing tcs® restoration.

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Impression Taking Techniques

One of the easy benefits of a partial denture is little to no tooth preparation is needed. The laboratory only needs a good impression and a bite registration to fabricate a beautiful, functional restoration.

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

- An accurate impression is the first and key to the success of a tcs® partial. If an alginate impression is taken, promptly pour the impression. That way a master model can be fabricated while the patient is still present.
- If poorer the impression, the impression should have all the anatomical details for a successful tcs® partial. Also don't overcut out undercuts.

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Insertion Techniques

- Examine the partial carefully on and off the master model and check the path of insertion.
- Submerge the tcs® partial in hot water for a few minutes to 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 tissue.
- When the partial cools to a tolerable temperature, gently insert it into the patient's mouth.

NOTE: Use hot tap water prior to insertion.

To ensure you are receiving a genuine tcs® appliance, be sure you receive your appliance in a tcs® Deluxe plastic bag along with a tcs® Patient Care Pamphlet, a tcs® Identification Card, a tcs® Impression Material Card and a tcs® Care Card. Additionally, tcs® should be indicated on the bill.

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Adjustment Techniques

- If the patient feels pain when biting down (possible reasons):
  - Open bite: check the occlusion and reduce the occlusion accordingly
  - Premature contact: check the occlusion and reduce
  - Also see the tcs® Partial Denture Troubleshooting Guide.
- If the patient senses discomfort due to tightness of the clasp, the clasp may be loosened slightly by submerging the part in hot water for approximately one minute and then gently bending the clasp outward. Avoid bending while holding it underneath running hot water. Remember to check the occlusion after loosening the clasp to prevent tightness the clasp.
- There are a variety of burs that are specifically designed for thermoplastic materials.

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Preparation for Adding Teeth

Applies only to tcs® Unbreakable.

The Laboratory will seldom offer a wedding technique (for small modifications) or an injection technique (for larger modifications and retrofits additions).

- Be sure the partial is free of any porosity or adhesives before taking the impression.
- Add adjacent impression to take 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.
- Forward to the laboratory with instructions.

When you receive the case from the laboratory, follow the Hot Water Treatment for re-insertion. See page 14.

Direct Diastema Tooth

Hot Water Treatment

Tip:
The best tools for adjusting tcs® Unbreakable and Flex by tcs® are the Brasseler Composite Finishing Kit and the Brown Rubber Points.

Also, a quick, light pressure in a scraping motion for best results when adjusting.

Adjusting tcs® appliance is easy with Brasseler Composite Finishing Set (page 2). Thank You Your Practice" for recommended tools.

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Preparation for Reline

Applies only to tcs® Unbreakable.

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.

A more basic and economical reline is when the base is pumped 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 occlusal at 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 ensure that it is positioned correctly in the alginate material.
- Immediately pour the material with regular yellow stone.
- DO NOT separate the partial from the stone model.
- Forward to the laboratory with instructions.

NOTE: When you receive the case from the laboratory, follow the Hot Water Treatment for re-insertion. See page 14.

Flex by tcs®

Care for tcs® Partials

tcs® partials are very easy to care for.

In order to keep their 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 restorations 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 gently to remove any plaque or tartar.
4. Place restoration in tcs® Comfortable Appliance Cleaner for at least 15 minutes per day.
5. It is recommended to keep restoration in water or tcs® Concentrated Dental Appliance Cleaner when not wearing it.
6. DO NOT use bleach, toothpaste or similar cleaning products as they may scratch or discolor the surface of the partial.

Please provide the patient with the Patient Care Pamphlet along with the tcs® Fresh samples.

tcs® Unbreakable

Flex by tcs®

FAQ's

Can I prescribe a full denture made out of tcs® Unbreakable or Flex by tcs®?
Yes, tcs® Unbreakable and Flex by tcs® were primarily formulated for removable partial dentures.

Can tcs® Unbreakable and/or Flex by tcs® File closed?
Yes.

Does tcs® Unbreakable and/or Flex by tcs® have the CE Mark?
Yes.

Is tcs® Unbreakable really unbreakable?
tcs® Unbreakable is extremely resilient against breakage. Extensive testing and clinical history has validated that tcs® Unbreakable will not break under proper use of the restoration.

Is Flex by tcs® also unbreakable?
Flex by tcs® is also extremely resilient and tear-break resistant.

When should I prescribe a tcs® partial?
tcs® partials are indicated whenever a removable partial denture/over-a-removable restoration is being considered. However, in some cases a tcs® 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.
- Fine cast saddle with tooth colored facing (Flex by tcs® Triumph).

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FAQ's

Are tcs® partials recommended for immediate cases?
No, due to recession, please allow the 10 weeks healing time prior to prescribing a tcs® restoration.

What type of impression material should be used?
See page 14, "Impression Taking Techniques".

How long will a tcs® partial last?
tcs® partials are designed to last a lifetime. Should modifications be needed as time goes by due to natural changes in the patient mouth, tcs® Unbreakable partials can usually be modified rather than replaced.
Additionally, tcs® Unbreakable partials are durable; however, should modifications be needed due to natural changes in the patient's mouth a new Flex by tcs® will be required.

Do the attachment teeth require preparation?
No tooth preparation is necessary when prescribing tcs® partials. The unique characteristics of flexible undercuts and patients' tissue undercuts promote soft tissue health. However, tooth preparation may be necessary for non-tcs® cases when tcs® is used in combination with metal.

What about adding teeth and/or clasps? Applies only to tcs® Unbreakable.
Can tcs® partials be relined? Applies only to tcs® Unbreakable.
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tcs® Unbreakable: Yes, in most cases the soft material reline is needed, the case is jumped into a new base. This is a laboratory procedure. See page 13, "Preparation for Reline".
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