

flexible denture range

SALES FREEPHONE 0800 0092 444





Supplying the dental profession since 1960

Why Choose TCS UK?

As always, our mission is to be the company you can rely on for removable, partial material and equipment, providing outstanding customer service and high quality products.

- Made in the USA
- Availability of Products: We are diligent about providing outstanding service that includes having the products in stock when you need them
- Customer Service: We aim to be the company that you can always depend on. Our expert technical consultants are available to answer all your questions regarding TCS, tools, equipment and services
- Easy to Use and Durable Equipment: Our equipment is made in the USA – in-house. We design easy to use, no nonsense equipment
- Warranty of Equipment: We stand behind our products and offer excellent warranties
- **Success:** Since we launched in 2000, over a million TCS partials have been prescribed worldwide
- **Training Workshops:** Hands-on workshops are held all year round. This is a great opportunity for technicians that are new to flexible materials or technicians that want to learn some new tips
- Cartridges to fit other Injection Units: It may not be necessary for a laboratory to invest in a new injection unit. We have cartridges that fit other popular injection units

TCS gives you options: tcs® Unbreakable (nylon based material), iFlex (polyolefin based material) and Blend for full dentures.

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For the dentist

When to prescribe tcs® partial dentures

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

For full dentures Blend can be considered.

In some cases, tcs® 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[®]
- 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 tcs[®]

Impression Taking Techniques

One of the many benefits of tcs® 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, polyvinylsiloxane and polyether impressions are also suitable.

- An accurate impression is the first step and is key to the success of tcs®
- 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[®] appliance. It is important to check for voids and air bubbles

Insertion Techniques

• Examine the partial carefully on and off the master model and check the path of insertion

- Submerge the tcs® 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

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.









tori & unilateral





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Adjustment Techniques

Set your hand piece on a low speed 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



Care for tcs® tcs[®] is 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 Twice a week use NitrAdine disinfectant to ensure that all bacteria and germs are eradicated from the appliance

For the lab & the dentist

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





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® 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 ensure 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

Why Choose tcs® material?

- Quality You Can Trust: tcs[®] 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 material 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[®] unique properties allow partials to be fabricated very thin without compromising durability, making them very comfortable for the patient
- Aesthetic: tcs[®] blends naturally with the surrounding tissue and gums. A well designed and fabricated tcs[®] will be unnoticeable in the patient's mouth

Available Shades:

- Shade 1: Light Pink
- Shade 2: Standard Pink (most popular shade)
- Shade 3: Light-Dark Pink (ethnic shade)
- Shade 4: Dark Pink (ethnic shade)
- Shade N: Natural/opaque (ideal for clasps)
- 'Shades may vary depending on the thickness of the partial denture.
 Note: iFlex is slightly more translucent than tcs® Unbreakable.
- Available Sizes: Small, Medium, Large
- Available Diameters: 22mm, 25mm and 28mm

tcs® Unbreakable

Warranty Against Breakages

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

- Extensive testing and clinical history has validated that tcs[®] Unbreakable partials will not break under proper use
- TCS, Inc. warrants tcs[®] material 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[®] material









tcs® Unbreakable - nylon based tcs® tcs® Unbreakable - nylon based thermoplastic

- Guaranteed unbreakable
- Lightweight
- Durable
- Flexible
- Repairable and relinable
- Stain resistant
- Very low water absorption
- Available in 5 translucent shades
- Millions of successful cases prescribed
- Chairside adjustment with pink or green stone burs
- Takes some special skills to finish and polish
- Injection Time and Temperature:



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tcs[®] iFlex

iFlex is a polyolefin thermoplastic specifically formulated for the fabrication of removable flexible partials. It provides the patient a comfortable, retentive and aesthetic appliance that is virtually undetectable in the mouth.

- Clinically unbreakable
- Lightweight
- Durable
- Slightly more flexible than tcs® Unbreakable
- Repairable and relinable
- Stain-free
- Virtually NO water absorption
- Available in 5 translucent shades
- Chairside adjustment using typical carbide burs
- Easy to finish and polish

Injection Time and Temperature:

447°F (230°C) for 12.5 minutes Easy to finish and polish, creating amazing results compared to other flexible materials on the market

Finishing



1. Use Rubber Wheels to trim edges and cut excess.



2. Use a carbide bur at low speed for major reduction and to adjust and fit on model



3. Round the edges of the Pink Grinding Wheels with a truing stone. Use these wheels for major reduction and to begin creating anatomy



4. Round the edges of the Brown Rubber Wheel with a truing stone. Use between 1 and 2 wheels to smoothen the entire surface of the partial, including the edges.



Brush as this highlights the areas that need to be smoother. Use low speed. Do not use high speed as it will damage the

Polishing



1. Separate your pumicing and polishing in sections.



4. Use a B-20 Brush. Place a bowl of water near your station.





2. Use Polycril with a tcs® rag buff. Mix Polycril with water until Polycril reaches a muddy consistency. Apply the Polycril to the partial every 2 seconds for about 1 minute per section.



5. Dip the partial in water and then on high speed press firmly onto the brush. Repeat this process for about 30 seconds per section.



3. Use a tcs[®] Rag Buff and iShine polishing paste. Apply enough iShine to the rag buff until it turns reddish-brown. Place a bowl of water near your station. On low speed press firmly onto the rag buff for 2 seconds. Repeat this process for about 30 seconds per section.



6. Repeat step 1, 2, and 3 about 2 times.

tcs® Blend

Blend is a thermoplastic with unique characteristics that can be repaired with acrylic, its own material and Unbreakable using tcs® Fusing Liquid.

It can be relined with cold cure acrylic and is extremely easy to work and polish. Just use your standard acrylic burs, very similar to the acrylic denture processes.

Blend will be most commonly recommended for full dentures due to its minimal shrinkage and very high impact strength compared to that of conventional acrylics.

The semi rigid material is also highly stain and scratch resistant.

The monomer free. hypo-allergenic material is also available in clear for clasps and speciality frameworks.



Injection Time and Temperature:

447°F (230°C) for 12.5 minutes



tcs[®] Suction Cup

For patients with flat ridges, denture stability may no longer be a challenge. tcs® Suction Cup dentures utilize a series of tiny suction cups made from a soft silicone rubber that gently adheres to the oral tissue without irritation. It can be used for maxillary and mandibular dentures. Any existing acrylic denture can be easily converted into a tcs® Suction Cup denture by simply taking a wash reline impression. When prescribing a new denture to a

patient, the patient should wear the denture for 1 to 2 weeks prior to having the tcs® Suction Cup reline. Finally, something to

offer patients with flat ridges.



tcs® JP90 - Hand Held Injector

The JPgo Hand Held Injector and JPgo Flask were designed to work in conjunction with the tcs® Digital Furnace (or similar furnace, not included in kit) to inject thermoplastic clasps, unilaterals and up to 5 consecutive tooth saddle/partials.







Using this hand held injector completely eliminates the need to flask the case using the traditional method, saving you time and money. JPgo Bullets (cartridges) will be available in tcs® Unbreakable, iFlex, and Blend (clear).

Equipment and sundries













Bronze plug thick & thin

Melting cylinder

Knock out stand





Manual injector

tc

Hydraulic

injector



Injection flask

torch



EZ flow

Fusing

liquid



Rekrow hot air

Packaging and after care products

FREE silver print on all boxes (subject to minimum order qty`s)



Denture boxes

NitrAdine Shine



Dr Denti boxes











NitrAdine



tcs[®] flexible

CENTRI 8

Complete after care solution for any flexible denture. The kit has everything the patient needs for 8 weeks.

- Centri toilet bag
- Denture box
- Silicone toothbrush
- NitriAdine



denture cleaner

- Olivafix
 - tcs[®] Cleaner (2)
 - NitrAdine tabs (box)
 - Booklet

FAQ'S

Are tcs® thermoplastics FDA cleared and CE marked? Yes, tcs® thermoplastics are both FDA cleared and CE marked.

Is tcs® Unbreakable really unbreakable?

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

Is iFlex also unbreakable? iFlex is clinically proven to be break resistant under normal use.

What about adding teeth and/or clasps? Teeth and/or clasps can be added to tcs®.

Does tcs® Unbreakable or iflex bond with acrylic?

Neither tcs® Unbreakable nor iFlex bond with acrylic. The bond between the teeth and the base material is mechanical.

What is the difference between tcs® and other brands?

Natural shades, durability, functionality, resistant to stains and odours, patient comfort, quality and so many other reasons.

Can tcs® partials be used in combination with metal? Yes and is sometimes recommended!





WHW Plastics Ltd, Therm Road, Hull, East Yorkshire, UK, HU8 7BF

- **T +** 44 (0) 1482 329154
- **E** + sales@whwplastics.com
- ₩ + www.whwplastics.com

