

CF CARBON FIBER POST

Introduction

Carbon fiber is the latest and most advanced material in dental posts. Carbon fiber is very strong and virtually unbreakable. It has a similar elasticity as dentin, enabling the carbon post to flex with the natural dentin. Carbon posts dissipate occlusal stress and do not transmit it as metal posts do. This post consists of strong carbon fiber bundles embedded in a special composite material, which will chemically bond with the dental material used for cementation and core build-up. The carbon fiber bundles are made of a carbon fiber reinforced epoxy resin with the reinforcing fibers in the form of a braided plait. Carbon fiber as a braided plait in a multi-axial arrangement gives superior resistance to bending and torsion forces than fibers in an ordinary axially parallel arrangement. Fiber content is approximately 65%. CF Carbon Fiber Post is fitted into the root canal in a passive and precise way and the post has passive retention slots instead of active cutting treads.

CF Carbon Fiber Post is smooth, cylindrical and available in 4 sizes at 19 mm

23-100550	Kit includes 24 CF Carbon Fiber Posts of 4 different sizes; Ø1.10, Ø1.25, Ø1.40, Ø1.55 mm corresponding to post sizes L1, L2, L3, L4, and 4 corresponding reamers.
23-100551	Refill box of 6 CF Carbon Fiber Posts, L1
23-100552	Refill box of 6 CF Carbon Fiber Posts, L2
23-100553	Refill box of 6 CF Carbon Fiber Posts, L3
23-100554	Refill box of 6 CF Carbon Fiber Posts, L4

Special fiber spiral reamers must be used

23-100560	Assortment box of 4 reamers, L1-L4
23-100561	Refill box of 3 reamers, L1
23-100565	Refill box of 3 reamers, L2
23-100570	Refill box of 3 reamers, L3
23-100575	Refill box of 3 reamers, L4

Precautions

- Posts are used to give retention for the reconstruction of non-vital teeth, where the root canal has been endodontically treated.
- Posts can be shortened with a diamond bur or separating disk.
- It is of utmost importance that the canal is prepared with a reamer of appropriate size and shape corresponding to the post selected.
- Reamers should be used at moderate rpm speed and with a careful up and down movement only.
- If these precautions are not taken, reamers may get stuck and/or break off inside the root canal.
- Never use force when inserting post as this can cause root fracture.
- Use appropriate cement to increase retention of posts.
- Posts should be used with professional judgment.

Instructions for use

CF Carbon Fiber Post is a passive post and easily shaped with a regular diamond bur. It is to be used in the following manner:

1. Endodontic treatment must be completed before restoring with post and core build-up material.
2. Use a radiograph to determine the appropriate diameter and depth of the post space preparation in order to maintain sufficient root wall thickness and prevent perforation.
3. Using a Gates Glidden drill or a Peeso reamer, remove gutta percha to the same length as that of the clinical crown or 2/3 of the total root length.
4. Prepare the post space with a special fiber spiral reamer corresponding to the chosen size of post.
5. Insert the post into the prepared post space. The insertion should be possible without any effort and the post should fit snugly into place. Check carefully for occlusal clearance.
6. Remove post, shorten as necessary from either the apical or occlusal end with a diamond bur or a separating disk.
7. Before cementing, wipe the post with disinfecting solutions.
8. Self-cure or dual-cure resin cements (i.e. M-Bond, Bistite II DC) are recommended for cementation. Treat the canal and/or apply primer/adhesive as per cement manufacturer's instructions.
9. Following the manufacturer's instructions, apply cement to post surface.
10. Seat post immediately, slowly inserting the post to full depth, allowing the excess cement to vent. Apply pressure about 60 seconds. Remove the excess cement.
11. Light cure, if required. See cement manufacturer's instructions.
12. Complete the core with core build-up material and fabricate the final restoration.

Possible risks with carbon fiber post

- If clinician does not use appropriate reamers to prepare root canal, problems may occur. If the post is too small, the restoration may fall out and it must be redone. If the post is too large and forced into a small root canal, this may cause the root to fracture.
- Carbon fiber post is non-corrosive and biocompatible.
- Retention of carbon fiber post may break if restoration is not properly prepared.
- If so, remaining carbon fiber post may easily be removed from root canal by drilling.
- All risks with carbon fiber post are linked to improper handling. These risks are minimized as carbon fiber post is only sold to qualified dentists who usually have a 4-year degree.
- In regards to the above, the risk in the use of carbon fiber posts must be regarded as nil or very minimal.

Sterilization

Reamers can be sterilized by all methods. Posts can be disinfected using any commercially available disinfecting solutions.

Storage

Store in dry area.

CF CARBON FIBER POST

Material Safety Data Sheet

1. Identification of substance

Product Name:	CF Carbon Fiber Post
Supplier:	J. Morita USA, Inc. 9 Mason Irvine, CA 92618 USA
Emergency phone numbers:	(800) 831-3222 or (949) 581-9600

2. Composition/Data on components

Ingredients:	Carbon fiber 65% by weight, Epoxy resin 35% by weight
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3. Hazard identification

None

4. First aid measures

After skin contact:	N/A
After eye contact:	N/A
After swallowing:	Contact a physician

5. Fire fighting measures

N/A

6. Accidental release measures

N/A

7. Handling and storage

Handling:	N/A
Storage:	Store in a dry place

8. Exposure controls/personal protection

N/A

9. Physical and chemical properties

Color:	Dark gray
Form:	Fiber reinforced epoxy bar
Odor:	None
PH:	N/A
Boiling point / range:	N/A
Melting point / range:	N/A
Flash point:	N/A
Flammability:	N/A
Water Solubility:	Insoluble

10. Stability and reactivity

Stable and no reactivity

11. Toxicological information

Non-toxic

12. Ecological information

N/A

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport Information

N/A

15. Regulatory information

N/A

16. Other information

The information, which is contained in this document, is based on available data. However, as such had been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. J. Morita USA, Inc. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.
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GF GLASS FIBER POST

Introduction

Glass fiber is the perfect material when you want to obtain the advantages of carbon fiber, the latest and most advanced material in dental posts, combined with superior esthetic results. Glass fiber is virtually as strong as carbon fiber, and does not show through the dentin. It has a similar elasticity as dentin, enabling the post to flex with the natural dentin. Glass posts dissipate occlusal stress and do not transmit it as metal posts do. This post consists of strong glass fiber bundles embedded in a special composite material, which will chemically bond with the dental material used for cementation and core build-up. The glass fiber bundles are made of a glass fiber reinforced epoxy resin with the reinforcing fibers in the form of a braided plait. Glass fiber as a braided plait in a multi-axial arrangement gives superior resistance to bending and torsion forces than fibers in an ordinary axially parallel arrangement. Fiber content is approximately 65%. GF Glass Fiber Post is fitted into the root canal in a passive and precise way and the post has passive retention slots instead of active cutting treads.

GF Glass Fiber Post is smooth, cylindrical and available in 4 sizes at 19 mm

23-100580	Kit includes 24 GF Glass Fiber Posts of 4 different sizes; Ø1.10, Ø1.25, Ø1.40, Ø1.55 mm corresponding to post sizes L1, L2, L3, L4, and 4 corresponding reamers.
23-100581	Refill box of 6 GF Glass Fiber Posts, L1
23-100582	Refill box of 6 GF Glass Fiber Posts, L2
23-100583	Refill box of 6 GF Glass Fiber Posts, L3
23-100584	Refill box of 6 GF Glass Fiber Posts, L4

Special fiber spiral reamers must be used

23-100560	Assortment box of 4 reamers, L1-L4
23-100561	Refill box of 3 reamers, L1
23-100565	Refill box of 3 reamers, L2
23-100570	Refill box of 3 reamers, L3
23-100575	Refill box of 3 reamers, L4

Precautions

- Posts are used to give retention for the reconstruction of non-vital teeth, where the root canal has been endodontically treated.
- Posts can be shortened with a diamond bur or separating disk.
- It is of utmost importance that the canal is prepared with a reamer of appropriate size and shape corresponding to the post selected.
- Reamers should be used at moderate rpm speed and with a careful up and down movement only.
- If these precautions are not taken, reamers may get stuck and/or break off inside the root canal.
- Never use force when inserting post as this can cause root fracture.
- Use appropriate cement to increase retention of posts.
- Posts should be used with professional judgment.

Instructions for use

GF Glass Fiber Post is a passive post and easily shaped with a regular diamond bur. It is to be used in the following manner:

1. Endodontic treatment must be completed before restoring with post and core build-up material.
2. Use a radiograph to determine the appropriate diameter and depth of the post space preparation in order to maintain sufficient root wall thickness and prevent perforation.
3. Using a Gates Glidden drill or a Peeso reamer, remove gutta percha to the same length as that of the clinical crown or 2/3 of the total root length.
4. Prepare the post space with a special fiber spiral reamer corresponding to the chosen size of post.
5. Insert the post into the prepared post space. The insertion should be possible without any effort and the post should fit snugly into place. Check carefully for occlusal clearance.
6. Remove post, shorten as necessary from either the apical or occlusal end with a diamond bur or a separating disk.
7. Before cementing, wipe the post with disinfecting solution.
8. Self-cure or dual-cure resin cements (i.e. M-Bond, Bistite II DC) are recommended for cementation. Treat the canal and/or apply primer/adhesive as per cement manufacturer's instructions.
9. Following the manufacturer's instructions, apply cement to post surface.
10. Seat post immediately, slowly inserting the post to full depth, allowing the excess cement to vent. Apply pressure about 60 seconds. Remove the excess cement.
11. Light cure, if required. See cement manufacturer's instructions.
12. Complete the core with core build-up material and fabricate the final restoration.

Possible risks with glass fiber post

- If clinician does not use appropriate reamers to prepare root canal, problems may occur. If the post is too small, the restoration may fall out and it must be redone. If the post is too large and forced into a small root canal, this may cause the root to fracture.
- Glass fiber post is non-corrosive and biocompatible.
- Retention of glass fiber post may break if restoration is not properly prepared.
- If so, remaining glass fiber post may easily be removed from root canal by drilling.
- All risks with glass fiber post are linked to improper handling. These risks are minimized as glass fiber post is only sold to qualified dentists who usually have a 4-year degree.
- In regards to the above, the risk in the use of glass fiber posts must be regarded as nil or very minimal.

Sterilization

Reamers can be sterilized by all methods. Posts can be disinfected using any commercially available disinfecting solutions.

Storage

Store in dry area.

GF Glass FIBER POST

Material Safety Data Sheet

1. Identification of substance

Product Name:	GF Glass Fiber Post
Supplier:	J. Morita USA, Inc. 9 Mason Irvine, CA 92618 USA
Emergency phone numbers:	(800) 831-3222 or (949) 581-9600

2. Composition/Data on components

Ingredients:	Glass fiber 65% by weight, Epoxy resin 35% by weight
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3. Hazard identification

None

4. First aid measures

After skin contact:	N/A
After eye contact:	N/A
After swallowing:	Contact a physician

5. Fire fighting measures

N/A

6. Accidental release measures

N/A

7. Handling and storage

Handling:	N/A
Storage:	Store in a dry place

8. Exposure controls/personal protection

N/A

9. Physical and chemical properties

Color:	Opaceous white
Form:	Fiber reinforced epoxy bar
Odor:	None
PH:	N/A
Boiling point / range:	N/A
Melting point / range:	N/A
Flash point:	N/A
Flammability:	N/A
Water Solubility:	Insoluble

10. Stability and reactivity

Stable and no reactivity

11. Toxicological information

Non-toxic

12. Ecological information

N/A

13. Disposal consideration

Disposal must be made according to federal, state and local regulations.
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14. Transport Information

N/A

15. Regulatory information

N/A

16. Other information

The information, which is contained in this document, is based on available data. However, as such had been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. J. Morita USA, Inc. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.
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