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Easyinsmile 8200625

User Manual: Dental Endodontic Endo Files X-Pro Gold Taper NITI Rotary Tip

Brand: Easyinsmile | Model: 8200625

1. INTRODUCTION

This manual provides essential information for the proper use, maintenance, and care of Easyinsmile X-Pro Gold Taper NITI Rotary Endodontic Files. These files are designed for professional dental use in root canal procedures.



Image 1.1: A complete set of Easymile X-Pro Gold Taper NITI Rotary Endodontic Files, showcasing the various sizes and their distinct color-coded handles.

The X-Pro Gold Taper NITI files are specifically engineered for endodontic treatments, offering superior properties in ductility, fatigue resistance, recoverable strain, biocompatibility, and corrosion resistance. They are available in 25mm length and various sizes including F1, F2, F3, SX, S1, S2, and assorted packs.

Key Features:

- **Compatibility:** X-TAPER GOLD files are compatible with all major rotary motors available in the market.
- **Material Properties:** Manufactured from NITI (Nickel Titanium) alloy, providing enhanced flexibility and resistance to cyclic fatigue.
- **Assorted Sizes:** Available in a range of sizes (F1, F2, F3, SX, S1, S2) to accommodate various canal anatomies.
- **Packaging:** Supplied in packs of 6 files.

2. SAFETY INFORMATION

Adherence to safety protocols is paramount when using dental instruments. These files are intended for use by qualified dental professionals only.

General Precautions:

- Always wear appropriate personal protective equipment (PPE), including gloves, masks, and eye protection.
- Ensure proper sterilization of files before each use. These files are designed for single-patient use.
- Inspect files for any signs of damage or deformation before use. Discard any compromised files immediately.
- Use files with appropriate rotary motor settings as recommended by the motor manufacturer.
- Avoid excessive force during instrumentation to prevent file separation.
- Dispose of used files as biohazardous waste according to local regulations.

3. PACKAGE CONTENTS

Each package of Easyinsmile X-Pro Gold Taper NITI Rotary Endodontic Files contains the following:

- 6 x X-Pro Gold Taper NITI Rotary Endodontic Files (Assorted or specific sizes as indicated on packaging)



Image 3.1: The files are securely packaged in a blister pack, ensuring sterility and protection during transport.

4. SETUP AND PREPARATION

Before initial use, and prior to each subsequent use, proper preparation of the files is crucial for patient safety and optimal performance.

1. **Inspection:** Carefully remove the files from their sterile packaging. Visually inspect each file under magnification for any manufacturing defects, bends, or signs of damage. Do not use any file that appears compromised.
2. **Sterilization:** Although packaged sterile, it is recommended to sterilize the files according to standard dental practice guidelines before first use and after any potential contamination. Refer to the "Maintenance" section for detailed sterilization instructions.
3. **Motor Attachment:** Securely attach the file to a compatible dental rotary endodontic motor handpiece. Ensure the file is properly seated and locked into the chuck mechanism to prevent dislodgement during operation.

5. OPERATING INSTRUCTIONS

The X-Pro Gold Taper NITI Rotary Files are designed for efficient and safe root canal preparation. Always follow established endodontic protocols.

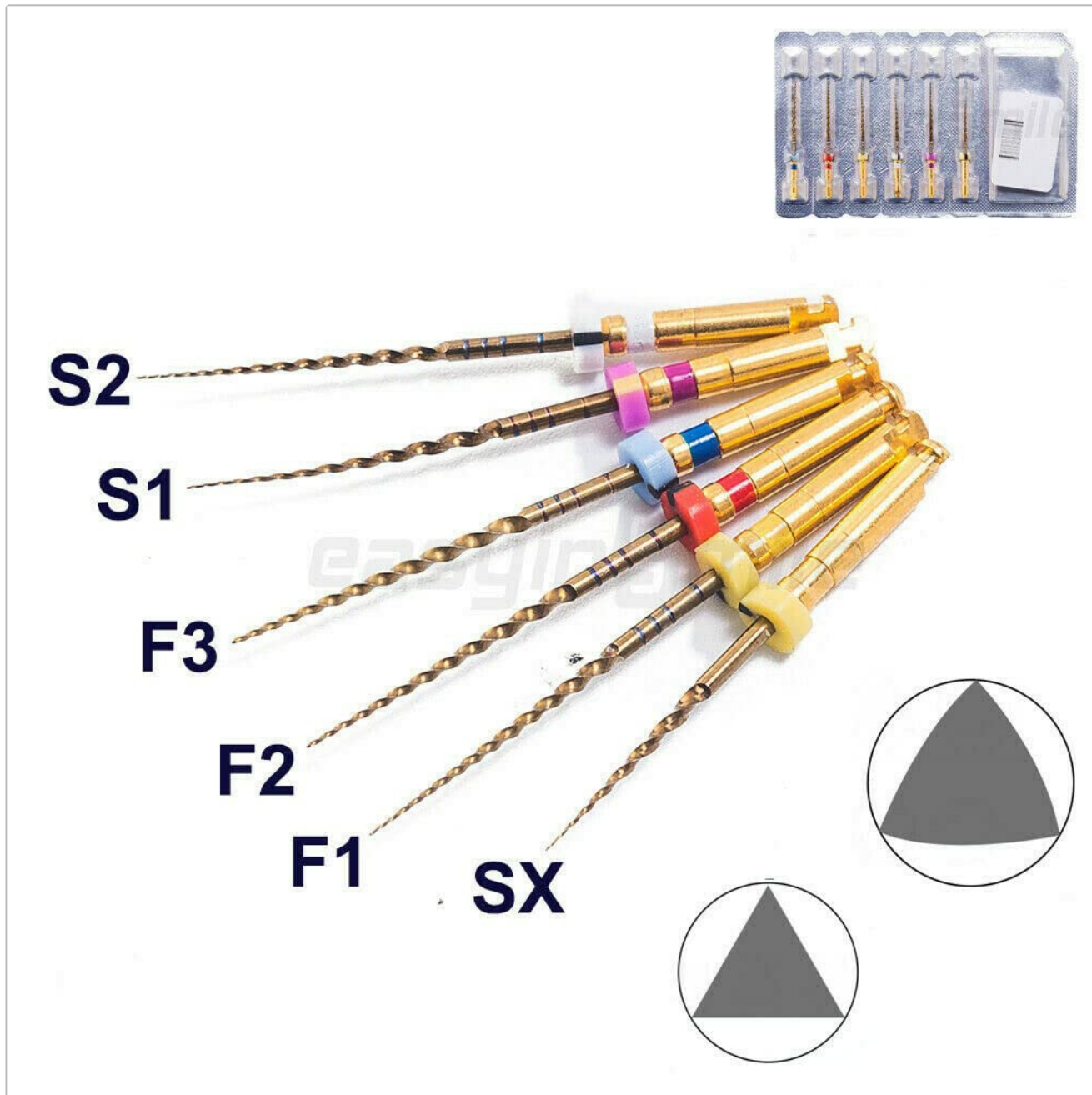


Image 5.1: Various file sizes (SX, S1, S2, F1, F2, F3) are clearly labeled, indicating their specific roles in the root canal preparation sequence.

Usage Guidelines:

- Motor Settings:** Set your rotary endodontic motor to the recommended speed and torque settings as specified by the motor manufacturer for NITI rotary files. Consult your motor's manual for precise parameters.
- Glide Path Creation:** Establish a smooth, reproducible glide path using hand files before initiating rotary instrumentation.
- File Sequence:** Select the appropriate file sequence (e.g., SX, S1, S2, F1, F2, F3) based on the canal anatomy

and the desired preparation. The sequence F1-F3 is typically used to prepare to the working length after initial shaping.

4. **Irrigation and Lubrication: Crucial:** After each file change, and frequently throughout the procedure, copiously irrigate the root canal with a suitable irrigant (e.g., sodium hypochlorite) and lubricate with an agent such as EDTA. This helps remove debris and reduces friction, minimizing the risk of file separation.
5. **Gentle In-and-Out Motion:** Use a gentle, pecking, in-and-out motion. Do not force the file. Allow the file to advance passively into the canal.
6. **Avoid Excessive Pressure:** Apply only light pressure. Excessive pressure can lead to file breakage or canal transportation.
7. **Flexibility:** The NITI material provides excellent flexibility, allowing the files to navigate curved canals effectively.



Image 5.2: A close-up view demonstrating the high flexibility of an Easyinsmile X-Pro Gold Taper NITI Rotary Endodontic File, a key characteristic for navigating complex root canal anatomies.

6. MAINTENANCE AND STERILIZATION

Proper cleaning and sterilization are essential for preventing cross-contamination and ensuring the longevity of the instruments, although these files are intended for single-patient use.

Cleaning and Sterilization Steps:

1. **Immediate Cleaning:** After use, immediately remove any visible debris from the file using a soft brush and water.
2. **Ultrasonic Cleaning:** Place the files in an ultrasonic cleaner with an appropriate cleaning solution for the recommended duration.

3. **Rinsing:** Thoroughly rinse the files under running water to remove all cleaning solution residues.
4. **Drying:** Dry the files completely using a lint-free cloth or air drying.
5. **Sterilization:** Autoclave the files according to the manufacturer's instructions for your specific autoclave unit. Typical parameters for steam sterilization are 134°C (273°F) for 3-5 minutes or 121°C (250°F) for 15-20 minutes, with appropriate drying time. Ensure files are placed in sterilization pouches or cassettes.
6. **Storage:** Store sterilized files in a dry, clean environment until ready for use.

Note: These files are designed for single-patient use. Re-sterilization and re-use are not recommended as it may compromise file integrity and patient safety.

7. TROUBLESHOOTING

This section addresses common issues that may arise during the use of rotary endodontic files.

Problem	Possible Cause	Solution
File separation (breakage)	Excessive force; inadequate irrigation/lubrication; over-use of file; sharp canal curvature; lack of glide path.	Use gentle, pecking motion; ensure copious irrigation and lubrication; use files for single patient only; establish proper glide path; consider pre-curving files for severely curved canals.
Ineffective canal shaping	Incorrect file sequence; insufficient working length; debris accumulation in flutes.	Follow recommended file sequence; confirm accurate working length; irrigate frequently to clear debris.
File not advancing	Blocked canal; insufficient glide path; file size too large for canal.	Re-establish patency with small hand files; ensure adequate glide path; use smaller file size initially.

8. SPECIFICATIONS

Technical specifications for the Easyinsmile X-Pro Gold Taper NITI Rotary Endodontic Files.

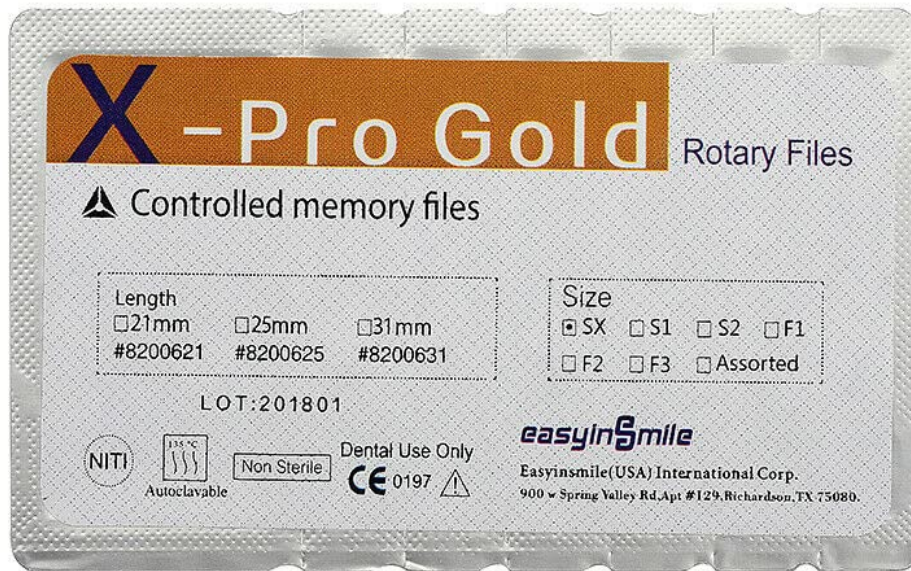


Image 8.1: The product packaging clearly displays available lengths (21mm, 25mm, 31mm) and sizes (SX, S1, S2, F1, F2, F3, Assorted), along with manufacturing details.

- **Product Name:** Dental Endodontic Endo Files X-Pro Gold Taper NITI Rotary Tip
- **Brand:** EasyinSmile
- **Model Number:** 8200625
- **Material:** NITI (Nickel Titanium)
- **Length:** 25mm (also available in 21mm, 31mm as per packaging)
- **Available Sizes:** SX, S1, S2, F1, F2, F3, Assorted
- **Package Dimensions:** 3.62 x 2.24 x 0.31 inches
- **Item Weight:** 0.32 ounces
- **Manufacturer:** EasyinSmile

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your EasyinSmile X-Pro Gold Taper NITI Rotary Endodontic Files, please contact the manufacturer directly.

Manufacturer: EasyinSmile

Please refer to the contact information provided on the product packaging or visit the official EasyinSmile website for the most up-to-date support details.

Note: As these are single-use medical devices, warranty typically covers manufacturing defects prior to use. Proper handling and adherence to instructions are crucial.