Successful Endodontics require more than just good luck...
Vitality control testing

Roeko Endo-Frost

Cold spray
- temperature -50 °C
- for freezing pellets and dental rolls
- spray nozzle for precise application
- odourless

Ideal for vitality testing. The pellets are cooled with cold spray to test the vitality of the tooth.

Roeko Endo-Frost Pellets

Root canal instruments and accessories

Roeko root canal instruments are made of stainless steel and are particularly flexible, sharp, cutting. Their cutting edges are ground with highest precision and are flawless. The autoclavable instruments are supplied with different shaped stoppers indicating the instrument type.

Roeko Reamers (ISO), Length 25 mm
For obturation of the root canal

Roeko H-Files (ISO), Length 25 mm
For cleaning and enlargement of the root canal

Roeko K-Files (ISO), Length 25 mm
For obturation of the root canal

Roeko Stopper
For Roeko root canal instruments
- made of silicone
- radiopaque
**roeko Endo Gauges**

Roeko Endo gauges are ideal for setting the length of root canal instruments, paper, gutta-percha, Calcium Hydroxide PLUS and activ points. The compact and handy instrument holders can also be used for preparing and storing instruments ready for root canal treatment.

**Type CS**
Chrome nickel steel with a specially treated surface, Ø 48 mm. Suitable for the autoclave and chemiclave. For 12 instruments with a central well and sponge for used instruments.

**Type C**
Chrome nickel steel with a specially treated surface, Ø 33 mm. Suitable for the autoclave and chemiclave. For 8 instruments, no sponge.

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**roeko Endo-Rac**
Instrument holder for preparing and storing Roeko root canal instruments ready for treatment

- handy and compact
- chrome nickel steel
- mm graduation line determines the position of the stopper along the instrument
- suitable for the autoclave, chemiclave and dry heat sterilizer

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**roeko Steribox**
For the storage of Endo-Rac

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**roeko Steripaper**
according to DIN EN 868-2, with indicator

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**roeko CanalBrush™**
CanalBrush is a highly flexible endodontic brush made of polypropylene. It is used during root canal treatments to remove dentin, plaque and other impurities loosen by files and drills. The extremely small CanalBrush helps clean areas of the root canal which are not reached by files. The use of the CanalBrush in connection with an irrigating solution (e.g. NaOCl, NaCl, H₂O₂, alcohol, CHX) increases considerably the cleaning effect of irrigating solutions on the root canal surface. CanalBrush can be used manually with a rotary action. However, it is more efficient to use it with a contra-angle handpiece at a maximum of 600 rpm.

- better cleaning effect than with files, without enlarging the canal
- very flexible, low risk of breakage
- can be autoclaved at 134 °C before use
- can also be used to place post cement or adhesives
- with endo stops for length control
Perfect isolation for safe and efficient working conditions

**roeko**

**Flexi Dam non latex**

- latex-free
- powder-free
- more tear resistant than latex
- highly elastic, easy to place
- has excellent recovery properties for effective isolation of the tooth
- no unpleasant odour
- available violet and blue

Highly elastic Flexi Dam non latex provides perfect isolation of the tooth setting an effective barrier between the oral cavity and the area of treatment.

**roeko**

**Punch**

Exact punching is a prerequisite for tear-free application of dental dam. The Roeko punch has a special feature: 8 hole sizes which provide more flexibility when working with different types of dental dam.

**roeko**

**Clamp Forceps**

The Roeko clamp forceps enable secure transfer and fixation of the clamps to the tooth. This precision instrument is light and therefore pleasant to use.

**roeko**

**Clamps**

The ideal shape of Roeko winged clamps and their uniform tension ensure a good fit around the tooth. They keep their excellent recovery properties and their ability to retract the dam effectively even after being used and autoclaved several times.

**roeko**

**Plastic frame**

The oval frame is radiolucent. The hinges in the middle of the frame allow it to be folded to one side, which is particularly advantageous during endodontics if an x-ray needs to be taken.
Chlorhexidine points

The points have a gutta-percha matrix with 5% chlorhexidine diacetate. Chlorhexidine is known to be highly effective against bacteria and many other organisms including yeasts and fungi even in low concentrations.

- the chlorhexidine is integrated into a gutta-percha point for reliable and quick application into the root canal
- radiopaque
- easy to apply and easy to remove

Effective and time saving temporary root canal filling

“Antibacterial Efficacy of a New Chlorhexidine Slow Release Device to Disinfect Dentinal Tubules”
Lin S, Zuckerman O, Weiss EI, Mazor Y, Fuss Z

Dentinal tubules of 27 cylindrical bovine root specimens were infected with Enterococcus faecalis. In nine specimens, 5% chlorhexidine was placed in a slow-release device (Activ Point®) for 7 days, in another nine irrigation with 10 ml of 0.2% chlorhexidine was used, and the remaining nine served as positive control. Powder dentin samples obtained from within the canal lumina using ISO 025 to 033 burs were examined for the presence of vital bacteria by inoculating brain-heart infusion plates and counting colony forming units. Results were analyzed using analysis of variance and covariance with repeated measures. Heavy bacterial infection was observed at the layer close to the lumen in the control specimens, decreasing rapidly from layer to layer up to the deepest layer tested (400–500 µm), which contained several hundred colony forming units. Viable bacteria in each layer of dentin were significantly reduced with chlorhexidine irrigation solution (p < 0.01) and were completely eliminated with the chlorhexidine slow-release device (p < 0.01).

 quoted from:

Calcium Hydroxide PLUS points

Calcium Hydroxide PLUS points are an excellent alternative to calcium hydroxide pastes. They are easy to use, practical and effective. The points ensure that Ca(OH)₂ is applied right down to the apex.

- clean (no smearing around the access cavity during insertion)
- time-saving – the points are ready to use
- easy to apply and to remove

“Additive Antimicrobial Activity of Calcium Hydroxide and Chlorhexidine on Common Endodontic Bacterial Pathogens”
Podbielski A, Spahr A, Halter B

It is an established procedure to use calcium hydroxide [Ca(OH)₂] as a therapeutic component to achieve sterilization of infected root canals. Unfortunately, some bacterial species are relatively resistant to Ca(OH)₂, and are therefore associated with treatment failures. The objective of this study was to identify combinations of substances that improve antimicrobial activity Ca(OH)₂, was used as a suspension or as a component of gutta-percha points. Efficacy of killing was compared for (a) Ca(OH)₂ suspension alone; (b) zinc oxide (ZnO) points alone; (c) Ca(OH)₂ suspension combined with ZnO points; (d) Ca(OH)₂ suspension combined with ZnO/chlorhexidine points; and (e) Ca(OH)₂ points combined with ZnO/chlorhexidine points. Common endodontopathogenic bacterial species (Enterococcus faecalis, Fusobacterium nucleatum, Peptostreptococcus micros, Porphyromonas gingivalis, Streptococcus intermedius) in pure cultures served as target organisms. In the in vitro assay, the antibacterial substances and approximately 10⁷ colony forming units of test bacteria were co-incubated in diluted human serum under growth conditions appropriate for the single bacterial species. Samples were then taken on days 0, 1, 2, 4, 7, and 14 of incubation and viable counts determined. Gram-negative bacteria were sufficiently killed by Ca(OH)₂ alone. Combinations with other agents did not improve the killing kinetics. For the inactivation of the Gram-positive bacteria P. micros and S. intermedius, a combination of Ca(OH)₂ and ZnO/chlorhexidine, killed the bacteria faster than Ca(OH)₂ alone. For E. faecalis, combining Ca(OH)₂ suspension with ZnO/chlorhexidine points lead to a faster decrease in the overall number of viable bacteria, but no test conditions lead to the complete loss of culture viability. The results of this study support the use of a combination of Ca(OH)₂ and chlorhexidine for faster eradication of P. micros and S. intermedius from infected canals.

quoted from:
Roeko Top color paper points combine the advantages of the white and the coloured points. The colour coding at the top of the points prevents mixing of sizes. The white tip allows cleaning and drying of the root canal to be monitored.

- highly absorbent
- sterile
- exact ISO sizing
- fully automated production
- no adhesives
- firm yet flexible for easy application

Roeko Gutta-percha points Top color are ideal for lateral, vertical and thermal condensation techniques for a perfect, 3 dimensional filling of the root canal. The colour coding at the top of the pink points prevents mixing of sizes.

- easy to introduce in the canal
- radiopaque
- stiff yet flexible enough to follow the curves of the canal
- excellent tissue compatibility
- absolutely hygienic
- fully automated production

Roeko Greater Taper gutta-percha points are ideal for obturating root canals which have been prepared with GT Files, HERO, ProFile, Quantec etc. At the tip of the point the diameter corresponds to the ISO sizes, but then the conicity is greater than with ISO points.

All roeko Endo points are available in assorted or individual sizes.
Instruments for lateral and vertical condensation

The tips are made from nickel titanium and have a memory, so they return to their original shape. The tips are flexible and follow the curves of the canal for effective lateral condensation of the gutta-percha even in the apical third of the root canal. The flexibility of the tips means there is less pressure on the root canal wall, less risk of fracture.

Sizes 15, 25, 35

Precise aspiration with sterile aspirator tips

Surgitip-micro

Micro surgical aspirator tips, ready for use in peel packs

Surgitip-micro is specially designed for use with microscopes and loupes. The extra-fine tip-opening of 1.2 mm ensures precise aspiration without blocking the field of vision. Supplied with an autoclavable double adapter

Surface structured gutta-percha points

Retention is an important aspect for root canal fillings. It has been known for many years that posts with a structured surface provide greater mechanical retention than posts without this feature. With the new Retention Points we can now offer this concept for gutta-percha points too!

• greater contact area for GuttaFlow® and other sealers
• better mechanical retention

roeko Retention Points

roeko Spreader NiTi

roeko Plugger

For vertical condensation

• rings in handle indicate size
• stainless steel
• mm length graduation on tips

Sizes 15, 25, 35

roeko Surgitip-micro
Two in One – Cold Flowable Obturation System

roeko GuttaFlow®

• first non-heated, flowable gutta-percha that does not shrink but expands slightly
• excellent seal, excellent flow, outstanding biocompatibility
• ease of handling, simple to use as only one masterpoint is needed (condensation is not required)
• allows for excellent post preparation
• can be easily removed during retreatment
• ensures a very tight seal of the root canal
• radiopaque for excellent x-ray evaluation

The product

Canal Tip
• fast, easy and safe application
• Luerlock design for screwing onto the capsule
• flexible and bendable

The capsule:
• Special capsule for single use
• GuttaFlow® consists of two components (paste-paste system)
• Exact dosage and reliable mixing
• No contamination
• The capsule is mixed for 30 seconds in a triturator before use

GuttaFlow®

Original with the green cap.
10 – 15 min Working time
25 – 30 min Curing time

NEW!

GuttaFlow® FAST

New, easy to identify with the red cap.
4 – 5 min Working time
8 – 10 min Curing time

ALTERNATIVE:
Combi Tip
• 2-component tip made of metal and plastic
• Bendable

Dispenser
• Elongated design for better reach
• The parallel movement of the dispenser lever guarantees controlled application
• Autoclavable
Clinical study

Clinical investigations are organised in the framework of a multi-center study under the direction of NIOM (Norwegian Institute for Dental Material Testing) and conducted in clinics in Germany, Norway and the USA.

The preliminary closing study report shows excellent healing results. On the basis of the PAI Scoring system, success rates of 0.7 – 0.8 were measured which have been documented over a period of one year.

Further Studies

A wide range of further studies on GuttaFlow® has already been conducted. You can find these under www.coltene.com.
RoekoSeal is an exceptional root canal sealer. Its chemical and physical properties fulfil all the requirements of a root canal sealer. RoekoSeal combines exceptional material properties such as excellent flowability, no shrinkage and biocompatibility with practical handling. There is no risk of incorrect mixing. RoekoSeal provides an excellent seal and sets new standards in quality and biocompatibility in endodontics. RoekoSeal flows so well that the root canal and lateral canals are filled effectively. The result, a tight seal, can be checked effectively on the radiograph.
Clinical study
The results of the study demonstrate clearly that the periapical periodontitis has healed well and show the clinical success of RoekoSeal.

The clinical studies were organised and co-ordinated by NIOM. The reference material was a non-commercially produced material based on ZOE (Grossman Sealer). 199 cases of teeth with periapical lesions were chosen and the healing processes observed.

The study was published in Journal of Endodontics 2003 Apr; 36(4):296-301

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Application

The root canal is dried with Roeko Paper points

Application of RoekoSeal with Roeko Guttapercha point

Positioning in the canal

Sealed root canal
## GuttaFlow®

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<tr>
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<td>20 Canal Tips + Stops</td>
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<td>3 Adapters for RotoMix™ **</td>
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<td>1 Dispenser</td>
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## GuttaFlow® FAST

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## RoekoSeal Automix

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<td>Refill Tips 24x</td>
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<td>RoekoSeal Single Dose (40 pcs)</td>
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## Endo Frost (200 ml)

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## Endo Frost Pellets (500 pcs)

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## H-Files (6 pcs)

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## K-Files (6 pcs)

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## Reamers (6 pcs)

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## Stopper (50 pcs)

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## Endo Gauges

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## Endo-Rac

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## Steribox

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## Roeko CanalBrush™

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## Roeko Punch

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## Roeko Clamp Forceps

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## Roeko Clamps

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## Roeko Plastic frame, foldable

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## Surgilip-micro (20 pcs)

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## activ point

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## Ca(OH)₂ PLUS points

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## Paper points

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## Guttapercha points

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## Greater Taper points

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## Retention Points

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## Spreader NiTi

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## Plugger

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<thead>
<tr>
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