



Renfert

Authorised Distributor



N. K. Patel and Sons

Importers & Dealers in Quality Dental Goods



Modeling natural
contoures more easily.

→ GEO Waxes

Overview Waxes

Description	Wax hardness	Conventional crown and bridge technique	All-ceramics and pressable ceramics	Esthetic wax-up	Special wax	Model casting	Page
Crown and Bridge Technique							
Dipping waxes							
GEO Dip	soft			–		–	163
GEO Rewax	hard			–		–	163
Modeling waxes							
GEO Expert	soft – hard					–	164
GEO Classic	soft – extra hard					–	166
GEO Crowax	soft – medium hard			–			171
Preformed waxes							
GEO Pontics wax pontics				–	–	–	173
Crown and Bridge, Model Casting Techniques							
Sprueing waxes							
GEO Pear-shaped wax				–	–		174
GEO Casting sprues, triangle				–	–	–	174
GEO Wax wire				–	–		173
Model Casting Technique							
Preparation waxes							
GEO Block-out wax	medium hard	–	–	–	–		176
GEO Casting Wax		–	–	–	–		176
Modeling waxes							
GEO Model casting modeling waxes	medium hard – hard	–	–	–	–		177
Sticking wax							
GEO Sticking wax	extra hard	–	–	–		–	177
Preformed waxes							
GEO Clasps		–	–	–	–		178
GEO Wax retainers		–	–	–	–		179
GEO Casting wax (wax sheets)		–	–	–	–		180
GEO L-jaw bar		–	–	–	–		181
GEO Wax wire in bars		–	–	–	–		181

Waxes to suit every requirement

The GEO wax ranges include the optimum modeling wax for crown and bridge and CrCo work. These waxes were developed with the constantly increasing demand for better quality and esthetics in mind.

This is what makes work easier

- 1 optimum waxing up and modeling properties
- 2 high-quality materials
- 3 coordinated to working with electric wax knife and open flame
- 4 very low shrinkage behavior
- 5 wide selection for every requirement



Ensure excellence: with GEO Expert

The top-quality modeling waxes, specially developed in collaboration with August Bruguera, are ideal for experts, individualists and technicians eager to learn with a high esthetic demand for the restoration.



Work flexibly: with GEO Classic

With the high-quality, versatile GEO Classic range of modeling waxes every dental technician can find the correct wax for his individual requirements, whether for single crowns or highly complex bridge restorations.



Work efficiently: GEO Crowax

All restorations in crown and bridge work, and in CrCo work can be fabricated very cost-effectively using these uncomplicated modeling waxes from the GEO Crowax range.



→ Renfert Performance-Test:
www.renfert.com/waxes



→ Wax processing units can be found on Page 78

making work easy
for me means

that the wax can be modeled
easily and reliably during any step
in the process chain.

Wolfgang Weber
Application Technology,
Master Dental Technician

Overview of Melting Ranges

Description	Recommended temperature setting	55°C 131°F	60°C 140°F	65°C 149°F	70°C 158°F	75°C 167°F	80°C 176°F	85°C 185°F	90°C 194°F	95°C 203°F
Crown and Bridge Technique										
Dipping waxes										
GEO Dip	90–92°C 194–198°F						■	■	■	■
GEO Rewax	91–93°C 196–200°F						■	■	■	■
Modeling waxes										
GEO Expert Modeling waxes	115–140°C 239–284°F		■	■	■	■	■	■	■	■
GEO Expert Cervical and Undercut wax	120–155°C 248–311°F	■	■	■	■	■				
GEO Classic & GEO Classic Natural Modeling waxes	120–135°C 248–275°F		■	■	■	■	■	■	■	■
GEO Classic Avantgarde Modeling waxes	125–140°C 257–284°F		■	■	■					
GEO Classic Snow-white Modeling waxes	110–140°C 230–284°F					■	■	■	■	
GEO Classic Cervical wax	125–150°C 257–302°F		■	■	■	■	■	■		
GEO Classic Cervical and Undercut wax	120–155°C 248–311°F		■	■	■	■				
GEO Classic Milling Wax	125–155°C 257–302°F			■	■	■				
GEO Crowax Modeling waxes	115–135°C 239–275°F				■	■	■	■	■	■
GEO Crowax Cervical and Undercut wax	120–155°C 248–311°F	■	■	■	■	■				
Model Casting Technique										
Preparation wax										
GEO Block-out wax	180–200°C 356–392°F						■	■	■	■
Modeling waxes										
GEO Model casting modeling wax hard	125–180°C 257–356°F				■	■	■	■	■	■
GEO Model casting modeling wax standard	125–170°C 257–338°F			■	■	■				
Sticking wax										
GEO Sticking wax	185–200°C 365–392°F							■	■	■

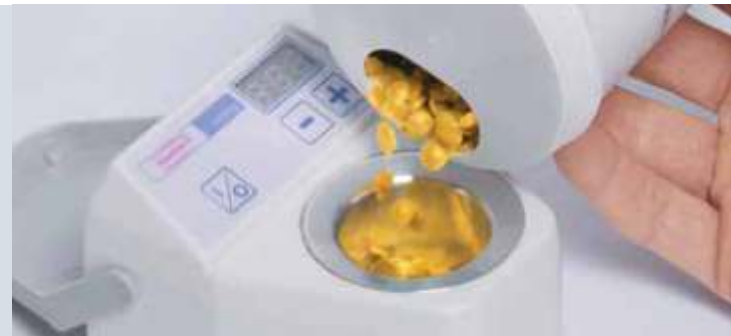
Recommended temperature setting for dipping pots / electric wax-up devices

Liquid – Dropping point
 Processable – Melting range
 Solid – Solidification point

GEO Dip and GEO Rewax

Dipping waxes

Ready-to-use wax dipping pellets for the production of wax copings using wax dipping equipment.



Ordering information

GEO Dip, yellow-transparent, soft, approx. 200 g (7 oz.)	No. 482 3000
GEO Dip, orange-transparent, soft, approx. 200 g (7 oz.)	No. 482 3200
GEO Dip, green-transparent, soft, approx. 200 g (7 oz.)	No. 482 3300
GEO Rewax, yellow-transparent, hard, approx. 210 g (7.35 oz.)	No. 651 0000

Suitable accessories

Renfert dipping waxes –

A perfect team with hotty LED/hotty and Vario E → Pages 83–84

Areas of application

- «Precise copings for all crown and bridge techniques.
- «Organic, burns residue-free, suitable for full and press ceramic techniques.

GEO Dip

Soft, elastic dipping wax with excellent shaping characteristics.

Advantages

- «Highly precise wax copings due to low shrinkage.
- «No deformation on removal due to elastic and tear-resistant wax copings.

GEO Rewax

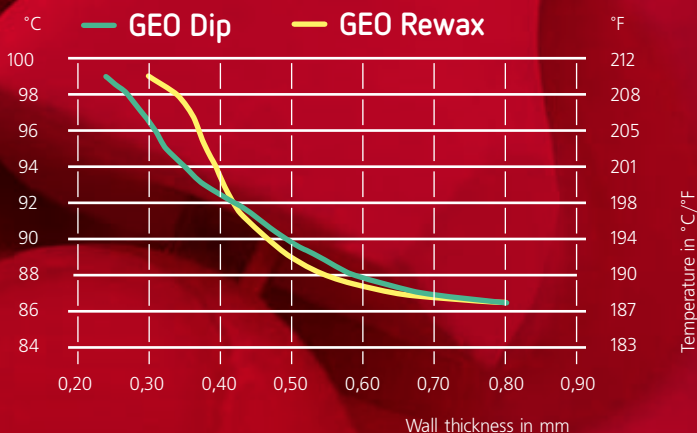
Hard, less elastic dipping wax with excellent shaping properties.

Advantages

- «Minimal contraction and high stability due to coordinated material properties.
- «Very good carving and cutting characteristics due to an ideal wax hardness.



Interconnection wall thickness vs. working temperatures



GEO Expert Line

GEO Expert Wax Set A. Bruguera

Wax set for creating monolithic, diagnostic and esthetic wax-ups for single restorations and bridgework according to the philosophy developed by August Bruguera.



“The GEO Expert Wax Set, which I co-developed, includes comprehensive guidelines for experts, individualists and those eager to learn. In my manual I use illustrations and texts to show step-by-step how to create monolithic, diagnostic and hyper-realistic/true-to-nature wax-ups.”

August Bruguera, Dental Technician

An esthetic wax-up helps patients and dentists envisage and evaluate the finished restoration precisely. It promotes perfect coordination between the patient, dentist and laboratory.

Advantages

- «Natural tooth contours and shades are easily created using the manual by August Bruguera.
- «Wax-ups are quickly and neatly sculpted using the modeling and effect waxes with their excellent modeling and carving properties.
- «Even the finest of structures such as cusps and mamelons can be sculpted precisely thanks to the balanced flow and solidification times coupled with optimum positional stability.

Areas of application

- «Monolithic and diagnostic wax-ups
- «Esthetic, true-to-nature, hyper-realistic wax-ups
- «Customization of tooth-shaded wax-ups
- «All-ceramics and pressable ceramics
- «Conventional crown and bridge techniques
- «Single crowns, inlays, onlays
- «Bridge restorations

Ordering information

GEO Expert Wax Set A. Bruguera, German	No. 634 0000
GEO Expert Wax Set A. Bruguera, English	No. 634 0001
GEO Expert Wax Set A. Bruguera, Spanish	No. 634 0002
GEO Expert Wax Set A. Bruguera, Italian	No. 634 0003
GEO Expert Wax Set A. Bruguera, French	No. 634 0004
GEO Expert dentin A. Bruguera, dentin opaque, hard, 40 g (1.41 oz.)	No. 634 0100
GEO Expert enamel A. Bruguera, enamel transparent, hard, 40 g (1.41 oz.)	No. 634 0200
GEO Expert sculpture A. Bruguera, gray opaque, hard, 40 g (1.41 oz.)	No. 634 0300
GEO Expert translucent A. Bruguera, translucent transparent, hard, 40 g (1.41 oz.)	No. 634 0400
GEO Expert effect white A. Bruguera, white opaque, hard, 2 x 4 g (2 x 0.14 oz.)	No. 634 0110
GEO Expert effect orange A. Bruguera, orange transparent, hard, 2 x 4 g (2 x 0.14 oz.)	No. 634 0210
GEO Expert effect blue A. Bruguera, blue transparent, hard, 2 x 4 g (2 x 0.14 oz.)	No. 634 0310
GEO Expert effect brown A. Bruguera, brown transparent, hard, 2 x 4 g (2 x 0.14 oz.)	No. 634 0410

Contents GEO Expert Wax Set A. Bruguera

Wax presentation palette with transparent lid and user guide according to the philosophy of August Bruguera; 4 modeling waxes of 40 g each: GEO Expert sculpture / dentin / enamel / translucent; 4 effect waxes of 4 g each: GEO Expert effect white / orange / blue / brown

Range of applications

GEO Expert A. Bruguera	Conventional crown and bridge techniques	All-ceramics and pressable ceramics	Esthetic wax-up	Special waxes
sculpture		–	–	–
dentin		–		–
enamel	–			–
translucent	–			–
effect white	–	–		–
effect orange	–			–
effect blue	–			–
effect brown	–			–
cervical red-orange				

burns without residue



The modeling and effect waxes in the GEO Expert Line are hard waxes with excellent modeling and carving properties.



The modeling waxes GEO Expert sculpture/dentin are developed specifically for modeling monolithic wax-ups and conventional modeling for crown and bridgework.



The GEO Expert enamel and translucent modeling waxes are organic and transparent. They burn out residue-free and are suitable for all-ceramics and pressable ceramics.



The modeling waxes GEO Expert dentin/enamel/translucent are tooth-colored waxes for modeling and optimum visualization of esthetic wax-ups.



The effect waxes GEO Expert effect white/orange/blue/brown are for customizing tooth-shaded, true-to-nature wax-ups.

GEO Expert cervical A. Bruguera

Cervical wax



The cervical wax, GEO Expert, is an esthetical, tension-free cervical wax in a red-orange color. It can also be used for flooding and blocking out cavities. This cervical wax has organic constituents and burns out residue-free.

Advantages

- «Soft and slightly elastic cervical and undercut wax, ideal for creating the natural shade of a tooth neck.
- «Ultra-thin preparation margins due to good adaption and carving properties.
- «Precision and accurate fit due to minimal contraction.

Ordering information

GEO Expert cervical red-orange A. Bruguera,
red-orange transparent, soft-medium hard, 40 g (1.41 oz.)

No. 634 0500

Further information

www.renfert.com/geowax



GEO Classic Line

Modeling and special waxes

The GEO Classic modeling waxes are a selection of high quality, medium hardness and hard waxes, for use in crown and bridge work and for milling techniques.



Range of applications

GEO Classic	Conventional crown and bridge techniques	All-ceramics and pressable ceramics	Esthetic wax-up	Special waxes
Beige-opaque		–	–	–
Gray-opaque		–	–	–
Mint-opaque		–	–	–
Blue-transparent			–	–
Mint-transparent			–	–
Avantgarde beige-opaque	–		–	–
Avantgarde grey-opaque	–		–	–
Avantgarde mint-opaque	–		–	–
Natural dentine-opaque	–			–
Natural dentine-transparent				–
Snow-white white-opaque		–		–
Snow-white white-transparent				–
Cervical wax burgundy-transparent			–	
Cervical and Undercut wax red-transparent			–	
Milling wax blue-opaque		–	–	

burns without residue

These organic, transparent modeling waxes burn-out residue-free and are especially suitable for full and press-ceramic techniques. All GEO Classic modeling waxes are perfectly suitable for use with an electric wax knife or with a naked flame.

Areas of application

- « Frameworks
- « Single crowns, inlays and onlays
- « Bridge restorations
- « Milling techniques, telescope and conical crown techniques
- « Full and press-ceramic
- « Monolithic & diagnostic wax-ups



GEO Classic Basic Set

Modeling waxes in a set



A selection of medium hardness and hard modeling waxes with very good carving and modeling characteristics for the production of crown and bridge restorations.

Advantages

- «Ideal starter set in the Renfert GEO Classic wax line.
- «Covers a wide spectrum of applications for fixed restorations.

GEO Classic

Modeling waxes



The GEO Classic modeling waxes are hard waxes with very good modeling and carving characteristics. The organic transparent modeling waxes burn-out residue-free. The inorganic opaque waxes are well suited for the production of conventional restorations using the casting technique.

Advantages

- «Very good flowing and modeling characteristics due to a wide melting range.
- «Highly precise fitting accuracy due to very low shrinkage.
- «Ideally suited for occlusal design due to its non-elastic and hard wax quality.

Ordering information

GEO Classic Basic Set

No. 493 0004

Contents

GEO Classic mint-transparent, GEO Classic Natural dentine opaque, GEO Classic Avantgarde grey-opaque, GEO Classic Snow-white opaque, GEO Classic Milling wax blue-opaque, GEO Classic Cervical and undercut wax red-transparent a 20 g (0.70 oz.)

Ordering information

GEO Classic, beige-opaque, hard, 75 g (2.63 oz.)

No. 497 0100

GEO Classic, gray-opaque, hard, 75 g (2.63 oz.)

No. 497 0200

GEO Classic, mint-opaque, hard, 75 g (2.63 oz.)

No. 497 0300

GEO Classic, blue-transparent, hard, 75 g (2.63 oz.)

No. 497 1200

GEO Classic, mint-transparent, hard, 75 g (2.63 oz.)

No. 497 1300

Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic Avantgarde

Modeling waxes



The inorganic, opaque, medium hardness GEO Classic Avantgarde modeling waxes with excellent modeling and carving characteristics are ideally suited for conventional crown and bridge techniques. They are especially suited for modeling with an electric wax knife.

Advantages

- «Extremely quick and efficient modeling due to a very low and narrow melting range.
- «Clean chip formation due to excellent carving properties.
- «Optimal modeling results as the wax cools quickly and has a very low degree of solidification contraction.

Ordering information

GEO Classic Avantgarde, beige-opaque, medium hard, 75 g (2.63 oz.)	No. 495 0100
GEO Classic Avantgarde, gray-opaque, medium hard, 75 g (2.63 oz.)	No. 495 0200
GEO Classic Avantgarde, mint-opaque, medium hard, 75 g (2.63 oz.)	No. 495 0300

Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic Natural

Modeling waxes



Hard modeling waxes for the fabrication of diagnostic and aesthetic wax-ups for fixed restorations. The organic modeling wax GEO Natural dentin-transparent burns-out residue-free and is especially suited for full and press-ceramic techniques.

Advantages

- «Easy production of natural looking, life-like wax-ups with the aid of dentine colored, transparent or opaque modeling waxes.
- «Very good flowing and modeling characteristics due to a wide melting range.
- «High precision and fitting accuracy due to very low shrinkage.

Ordering information

GEO Classic Natural, dentine-opaque, hard, 75 g (2.63 oz.)	No. 499 0300
GEO Classic Natural, dentine-transparent, hard, 75 g (2.63 oz.)	No. 499 0400

Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic Snow-white

Modeling waxes



The GEO Classic Snow-white modeling waxes are medium hard, white modeling waxes for the fabrication of functional wax-ups in the articulator, on various frameworks. GEO Classic Snow-white is available as an organic (transparent) wax or as an inorganic (opaque) modeling wax which burns out residue-free.

Advantages

- «Quick, precise production of white wax-ups for functional planning on situation and master models.
- «Quick and precise waxing due to an extremely narrow melting range and low shrinkage.
- «Very good modeling and carving characteristics due to coordinated material properties.

Ordering information

GEO Classic Snow-white, white-opaque, medium hard, 75 g (2.63 oz.)	No. 499 0101
GEO Classic Snow-white, white-transparent, medium hard, 75 g (2.63 oz.)	No. 499 0201

Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic

Cervical wax



A hard, stable and tension-free cervical wax for precise modeling of the cervical edge. The GEO Classic cervical wax is an organic wax which burns-out residue-free. It is ideally suited for use with conventional crown and bridge techniques as well as for full and press-ceramic techniques.

Advantages

- «Exact and ultra thin, adaptable preparation margin due to the especially stable cervical wax.
- «Precise and accurately fitting edges due to low contraction.
- «Excellent sculpting and carving characteristics due to coordinated material properties.

Ordering information

GEO Classic Cervical wax, burgundy-transparent, hard, 75 g (2.63 oz.)	No. 486 1000
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Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic

Cervical and undercut wax



A soft, slightly elastic and tension-free cervical and undercut wax for precise modeling of the cervical margin. It can be used for building-up slight undercuts and cavities and for finishing. This cervical wax and undercut wax has organic constituents and burns-out residue-free. It is very good for use in classic crown and bridge techniques as well as in full and press-ceramic techniques.

Advantages

- «Distinctly softer and more elastic than the harder and more stable GEO Classic cervical wax.
- «High precision and fitting accuracy due to low contraction.
- «Ultra thin preparation edges due to very good adaption and carving properties.

Ordering information

GEO Classic Cervical and undercut wax, red-transparent, soft-medium hard, 75 g (2.63 oz.)

No. 489 1000

Range of applications

Overview GEO Classic Waxes → Page 166

GEO Classic

Milling wax



A hard, opaque milling wax, ideally suited for machine processing in milling technology. Due to its low and narrow melting range, this milling wax is ideal for quick and efficient modeling of telescope, conical crowns and attachment work and then subsequent wax milling.

Advantages

- «Smooth and sharp contoured wax surfaces due to coordinated material properties.
- «No chip formation due to ideal wax hardness.
- «No adhesion or smearing of wax chips on carbide cutters or wax burs and carvers when processing at the recommended rpm between 2,500 and 5,000 1/min.

Ordering information

GEO Classic Milling wax, blue-opaque, extra-hard, 75 g (2.63 oz.)

No. 485 1000

Range of applications

Overview GEO Classic Waxes → Page 166



GEO Crowax Line

Modeling and special waxes

The modeling waxes in the GEO Crowax line are medium hard universal waxes in handy tins for use in crown and bridge techniques as well as model casting framework techniques.

Range of applications

GEO Crowax	Conventional crown and bridge techniques	All-ceramics and pressable ceramics	Special waxes
Green-transparent			—
Blue-transparent			—
Red-transparent			—
Beige-opaque		—	—
Gray-opaque		—	—
Cervical and Undercut Wax red-transparent			

burns without residue



Areas of application

- « Frameworks
- « Single crowns, inlays, onlays
- « Bridge restorations
- « Full and press-ceramic
- « Cast metal dentures
- « Monolithic wax-ups



GEO Crowax

Modeling waxes



These modeling waxes are suitable for use with a naked flame and an electric wax knife. The organic, transparent GEO Crowax modeling waxes burn-out residue-free and are suitable for full and press-ceramic techniques.

Advantages

- ««Very good modeling and carving characteristics due to coordinated material properties.
- ««High precision and fitting accuracy due to low shrinkage.
- ««Quick waxing due to small melting range.

Ordering information

GEO Crowax, green-transparent, medium hard, 80 g (2.82 oz.)	No. 475 0100
GEO Crowax, blue-transparent, medium hard, 80 g (2.82 oz.)	No. 475 0200
GEO Crowax, red-transparent, medium hard, 80 g (2.82 oz.)	No. 475 0300
GEO Crowax, beige-opaque, medium hard, 80 g (2.82 oz.)	No. 475 0400
GEO Crowax, gray-opaque, medium hard, 80 g (2.82 oz.)	No. 475 0500

Range of applications

Overview GEO Crowax Waxes → Page 171

GEO Crowax

Cervical and undercut wax



The universal GEO Crowax cervical and undercut wax, is a tension-free, soft to medium hard special wax for the cervical margin, as well as for building-up cavities and flooding. This cervical and undercut wax has organic constituents and burns-out residue-free. It is suitable for use in conventional crown and bridge techniques and also for full and press-ceramic techniques.

Advantages

- ««Easy adaption due to soft and slightly elastic wax consistency.
- ««Ultra thin preparation margins due to very good carving qualities.
- ««High precision and fitting accuracy due to low contraction.

Ordering information

GEO Crowax Cervical and undercut wax, red-transparent, soft-medium hard, 80 g (2.82 oz.)	No. 475 0600
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Range of applications

Overview GEO Crowax Waxes → Page 171

GEO Pontics

Prefabricated pontics



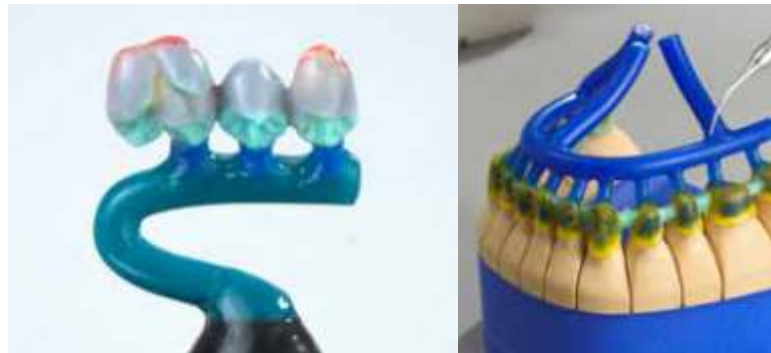
A set of pontics for modeling anterior and posterior bridges for veneer technique with acrylic or porcelain.

Advantages

- ««Universal sizes compatible for all applications – time saving!
- ««No distortion during removal due to the high stability.
- ««Tooth shapes are proportionally reduced.

GEO Wax wire

Roll wax



An optimal wax mixture makes the GEO wax wire tension-free, thus limiting elastic recovery.

Advantages

- ««Dimensionally stable patterns.
- ««Stress-free working.
- ««Easily adaptable, but dimensionally stable.

Ordering information

GEO Pontics Set, 10 pieces each in 6 sizes	No. 500 0000
GEO Pontics, UJ right, posterior teeth 14–17	No. 500 0100
GEO Pontics, UJ, anterior 12–22, 20 pieces	No. 500 0200
GEO Pontics, UJ left, posterior teeth 24–27, 20 pieces	No. 500 0300
GEO Pontics, LJ left, posterior teeth 34–37, 20 pieces	No. 500 0400
GEO Pontics, LJ, anterior teeth 32–42, 20 pieces	No. 500 0500
GEO Pontics, LJ right, posterior teeth 44–47, 20 pieces	No. 500 0600

Further information

www.renfert.com/P48



Ordering information

GEO Wax wire	turquoise/ hard	blue/ medium-hard	light-blue/ extra-hard
2,0 mm, ca. 250 g (12 ga. / 0.55 lbs.)	No. 676 2020	No. 678 3020	No. 675 1020
2,5 mm, ca. 250 g (10 ga. / 0.55 lbs.)	No. 676 2025	No. 678 3025	No. 675 1025
3,0 mm, ca. 250 g (9 ga. / 0.55 lbs.)	No. 676 2030	No. 678 3030	No. 675 1030
3,5 mm, ca. 250 g (7 ga. / 0.55 lbs.)	No. 676 2035	No. 678 3035	No. 675 1035
4,0 mm, ca. 250 g (6 ga. / 0.55 lbs.)	No. 676 2040	No. 678 3040	No. 675 1040
5,0 mm, ca. 250 g (4 ga. / 0.55 lbs.)	No. 676 2050	No. 678 3050	No. 675 1050