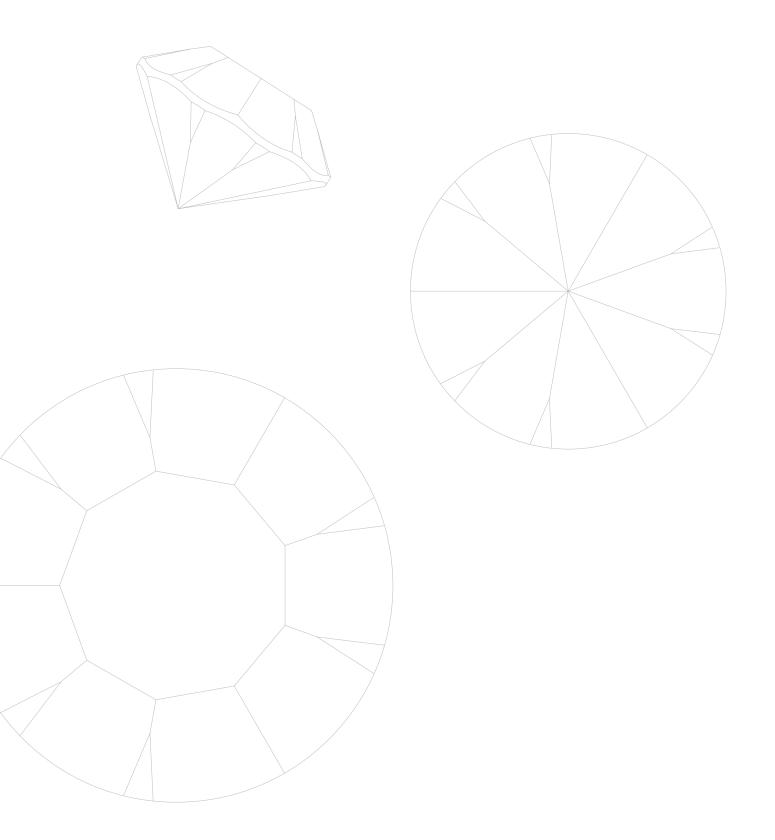


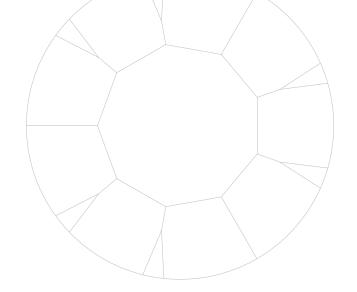
MC Chaton MA MA by PRECIOSA®



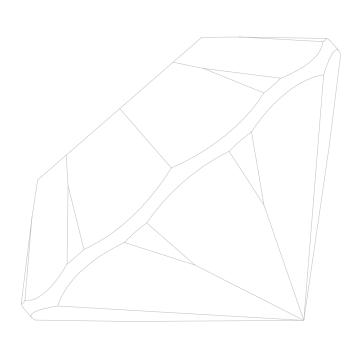


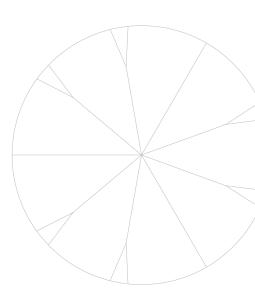














WELCOME TO PRECIOSA

The master craftsmen at Preciosa have devoted themselves to crystal cutting for generations. Preciosa was established in 1948 and has continued the century-old glass making tradition of North Bohemia. Our reputation for excellence has endured over the past sixty years. Today, we use only state-of-the art technology in our manufacturing process. We are well known for producing machine-cut crystal components. In the jewellery trade our name is synonymous with quality, placing Preciosa in a class of its own worldwide. When you choose Preciosa as a supplier, you gain a partner you can rely on.

The name Preciosa is derived from Latin, meaning precious, costly or valuable...





Preciosa® GENUINE CZECH CRYSTAL™

For centuries, Bohemia, a region of the Czech Republic, has been known for its crystal. It was here that the art of crystal cutting was perfected. Delicate elegance, captivating sparkle and exceptional brilliance are the distinctive characteristics that make Preciosa® GENUINE CZECH CRYSTAL™ an internationally recognized symbol of quality.

The Preciosa® GENUINE CZECH CRYSTAL™ trademark is a guarantee of the finest quality, 100% Czech-made product available only from Preciosa.

MAIN FEATURES

1

CRYSTAL

The Look and Feel of Full-Lead Crystal

2

CUT

Perfect Geometry and Improved Optical Properties

3

CONSISTENCY

European

Quality and Reliability

4

CONFIDENCE

Superior Durability and Easy Proof of Authenticity

5

CERTIFICATION

Taking Responsibility for Tomorrow

MAXIMA by PRECIOSA®

New Lead-Free Brilliance

MAXIMA is the premium Preciosa[®] GENUINE CZECH CRYSTAL[™] lead-free* quality. It is the state of the art in crystal components and meets the highest standards of quality and ecological certification. MAXIMA uses the most advanced crystal technologies together with several internationally patented processes to create a unique combination of sparkling material and brilliant, patented cut.

MAXIMA's optical-aesthetic properties are by far superior to most other lead-free glass components on the market today. Its much improved cut also makes it instantaneously identifiable.

MAXIMA by Preciosa® is 100% made in the Czech Republic.

^{*} Lead content < 0.009% (< 90ppm)

New Lead-Free Brilliance

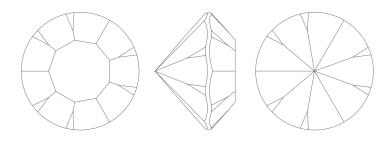


MC CHATON MAXIMA by PRECIOSA®

MC Chaton MAXIMA combines, for the first time in history, high-quality lead-free* crystal made with Preciosa® Hi- $Pure\ Crystal$ ™ technology with an original patented 15-facet cut which is foiled with the innovative Dura-Foiling™ layer.

The result is a Preciosa® GENUINE CZECH CRYSTAL™ component of unrivalled optical-aesthetic properties, outstanding resilience, exceptional durability, and one whose authenticity is quickly and unmistakably verifiable.

ART. 431 11 615



^{*} Lead content < 0.009% (< 90ppm)

1 CRYSTAL

The Look and Feel of Full-Lead Crystal

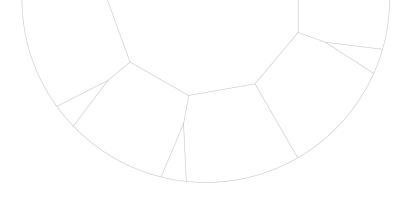
The patented combination of raw materials along with *Hi-Pure Crystal* ™ technology, a unique manufacturing process developed by Preciosa researchers to produce crystal components with spectacular brilliance, makes it possible to create lead-free* and barium-free crystal with a refractive index of 1.585.

As a result, MC Chaton MAXIMA looks and feels just like a full-lead crystal component and its optical properties are by far superior to most other lead-free glass components on the market today. MC Chaton MAXIMA also meets the ISO "Ultra Clear" IWA08 classification.





^{*} Lead content < 0.009% (< 90ppm)



2 cut

Perfect Geometry and Improved Optical Properties

The patented 15-facet cut was optimized by the most advanced gemological methods for the MC Chaton MAXIMA. Specially designed to allow the maximum dispersion of light, it eliminates unwanted dark areas that are present in a traditional 8-facet cut.

Never before have crystal stones been so close in brilliance and beauty to true diamonds. The overall appearance of this innovative cut is the result of perfect geometry and faultless precision of each facet.

When compared to a regular 8-facet cut, the internationally patented 15-facet MC Chaton MAXIMA, consisting of nine large and six smaller facets, provides:

- ✓ 2x better light distribution
- ✓ 2x more frequent scintillation with intense fire effects
- ✓ Significantly greater brightness
- ✓ Elimination of unwanted dark areas
- ✓ Visible differentiation due to an exclusive-looking cut

MC CHATONMARKET STANDARD
8-FACET









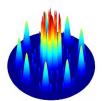
100% Light Distribution

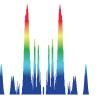
MC CHATON MAXIMA

ART. 431 11 615 15-FACET









200% Light Distribution

3 CONSISTENCY



European Quality and Reliability



MAXIMA by Preciosa® is 100% made in the Czech Republic under EU guidelines with ecologically responsible and sustainable technologies and processes.

MC Chaton MAXIMA is offered in a full range of 39 colours, 16 coatings and 53 sizes. It is characterized by tighter colour standards enabling higher stability of shades and improved size consistency which results in an overall defect rate of less than 1%.

The colour range of MC Chaton MAXIMA, the premium product by Preciosa, will be regularly extended to match Pantone's colour forecasting, allowing our partners to stay in harmony with current fashion trends.







Superior Durability and Easy Proof of Authenticity

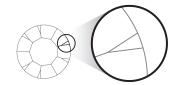
SUPERIOR DURABILITY

■ MC Chaton MAXIMA is foiled with the innovative *Dura-Foiling*TM layer, which guarantees perfect light reflection and superior resilience. The cool goldish-silver *Dura-Foiling*TM layer, made by eliminating heavy metals, meets manufacturers' highest demands for an ecological and safe product. The neutral colour of the foiling is suitable for any application.

The *Dura-Foiling*™ formula prevents stones from peeling off when glued or set into clay. It has excellent resistance to corrosion caused by electroplating chemicals, chlorine, salt water and perfumes. The foiling's improved FLPR* also allows easier soft soldering.

EASY PROOF OF AUTHENTICITY

- The combination of the new patented cut and Dura-FoilingTM layer allows fast and easy verification of the product's authenticity and quality at every stage of the supply chain.
- MC Chaton MAXIMA has newly designed original and improved packaging for easy verification.





^{*} Foiling Limitary Point of Resistance – internal parameter defining durability of foiling

4 CONFIDENCE



NEW PACKAGING

The MC Chaton MAXIMA now comes in new and improved packaging.

Sizes ss00-ss40 come in thicker envelopes with added padding for better protection of the product during shipping and handling.

Sizes ss45 – ss50 are packaged in more convenient redesigned boxes.

In addition, both envelopes and boxes now have:

- ✓ A more luxurious look and feel
- Enhanced protection against counterfeiting (hologram safety seal, 3D printing)
- ✓ A unique bar code
- ✓ A depiction of the product
- ✓ The Preciosa® GENUINE CZECH CRYSTAL™ logo









Taking Responsibility for Tomorrow

Preciosa is a European company that believes in supporting the preservation of the environment. We enforce environmentally safe working conditions and utilize ecologically responsible technologies.

The entire MAXIMA product line is lead-free*.

As a result, MAXIMA meets all lead-free crystal designation requirements. In the majority of available

colours**, MAXIMA does not contain cadmium or chrome⁶⁺ and all MAXIMA crystal components are barium-free. The special *Dura-Foiling*TM protective layer does not contain any heavy metals.

The MAXIMA product line is suitable for children's jewellery: it is tested in SGS laboratories and the ÖTI Institute.

CERTIFICATION

The MAXIMA product line is tested by authorized international laboratories, SGS and ÖTI, and meets the following world standards:

✓ ASTM F2923-11

Standard Specification for Consumer Product Safety for Children's Jewellery

✓ ASTM F963-11

Standard Consumer Safety Specification for Toy Safety

✓ CPSC 16 CFR 1303

Lead in a Surface Coating

✓ CPSIA

Consumer Product Safety Improvement Act

✓ Directive 2009/48 EU

Safety of Toys

✓ OEKO-TEX Standard 100

Product Class II

COMPLIANCE

The MAXIMA product line conforms to the following world standards:

- ✓ REACH Registration, Evaluation, Authorisation and Restriction of Chemical Substances
- ✓ RoHS Restriction on Use of Hazardous Substances **

For further information regarding compliance or application recommendations please refer to our website, **www.preciosa.com**, or contact our sales department at **info@preciosa.com**.

^{*} Lead content < 0.009% (< 90ppm)

^{**} Except Citrine, Sun, Hyacinth, Coral, Light Siam, Siam and Garnet.

PRODUCT INFORMATION



Product Range

The new MC Chaton MAXIMA comes in the full range of 39 colours, 16 coatings and 53 sizes. The patented 15-facet cut is available in sizes ss2.5 – ss50. Sizes ss00 – ss2 come in the standard 8-facet cut.

MC CHATON MAXIMA | ART. 431 11 615

The 15-facet cut (9 large and 6 smaller facets) is supplied in sizes ss2.5-ss50.



MC CHATON MAXIMA | ART. 431 11 111

The 8-facet cut is supplied in sizes ss00-ss2.

The small 431 11 111 MAXIMA chatons, just like the 431 11 615 chatons:

- ✓ Are lead-free* and barium-free
- ✓ Have improved size consistency and geometry
- ✓ Are foiled with the *Dura-Foiling*[™] layer
- ✓ Come in the newly designed packaging



^{*} Lead content < 0.009% (< 90ppm)

Colours



Crystal 00030



Jet 23980



White Opal 01000



Black Diamond 40010



Aquamarine 60000



Aqua Bohemica 60010



Turquoise 63030



Light Sapphire



Sapphire



Montana 30340



Capri Blue 60310



Indicolite 60100



Blue Zircon 60230



Chrysolite 50000



Peridot 50520



Emerald 50730



Olivine 50230



Jonquil 80100



Citrine 80310



Topaz 10070

Coatings



Light Colorado Topaz



Smoked Topaz 10220



Gold Quartz 00530



Light Peach 90300



Light Rose 70020



Rose 70010



Fuchsia 70350



Ruby 90110



Sun 90310



Hyacinth 90040

Coral

93180



Light Siam 90070



Siam 90090



Garnet 90120



Amethyst 20050



Light Amethyst 20020



Violet 20310



Tanzanite 20410



Purple Velvet 20490



Crystal AB 00030 AB



Crystal Argent Flare 00030 AgF



Crystal Velvet* 00030 Vel



Crystal Honey 00030 Hon



Crystal Celsian 00030 Cel



Crystal Blond Flare* 00030 BdF



Crystal Aurum* 00030 Aur



Crystal Monte Carlo*
00030 MtC

Crystal Capri Gold*



Crystal Apricot* 00030 Apri

00030 CaG



Crystal Vitrail Light* 00030 VL



Crystal Vitrail Medium* 00030 VM



Crystal Bermuda Blue* 00030 BBI



Crystal Heliotrope* 00030 Hel



Crystal Labrador* 00030 Lab



Jet Hematite* 23980 Hem

* Products with these coatings are not resistant to plating and similar processing.

NOTE:

Coatings which are not in the standard offer are available by special request only.

For the standard offer please see pages 22–25. Slight deviation in colour shades is unavoidable.

NUMERICAL ORDER

ALPHABETICAL ORDER

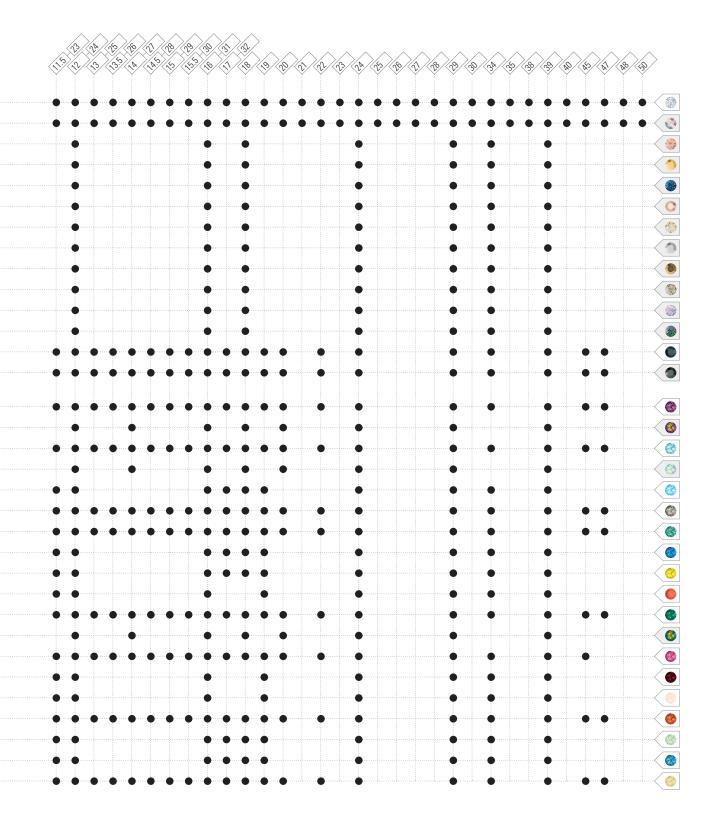
00030	Α	Amethyst	20050
00030 20031 AB Crystal AB		Agua Bohemica	
00030 22531 Cel Crystal Celsian		Aquamarine	60000
00030 23531 Hon Crystal Honey	В	Black Diamond	40010
00030 23931 BdF Crystal Blond Flare		Blue Zircon	60230
00030 24231 AgF Crystal Argent Flare	C	Capri Blue	60310
00030 26231 Aur Crystal Aurum		Chrysolite	50000
00030 26536 VL Crystal Vitrail Light		Citrine	80310
00030 26636 Apri Crystal Apricot		Coral	93180
00030 27031 Lab Crystal Labrador		Crystal	00030
00030 27131 CaGCrystal Capri Gold		Crystal AB	00030 20031 AB
00030 27731 MtC Crystal Monte Carlo		Crystal Apricot	
00030 27931 Vel Crystal Velvet		Crystal Argent Flare	
00030 28136 VM Crystal Vitrail Medium		Crystal Aurum	
00030 29536 HelCrystal Heliotrope		Crystal Bermuda Blue	
00030 29636 BBI Crystal Bermuda Blue		Crystal Blond Flare	
00530		Crystal Capri Gold	
01000		Crystal Celsian	
10070		Crystal Heliotrope	
10220		Crystal Honey	
10330 Light Colorado Topaz		Crystal Labrador	
20020 Light Amethyst		Crystal Monte Carlo	
20050		Crystal Velvet	
20310 Violet		Crystal Vitrail Light	
20410		Crystal Vitrail Medium	00030 28136 VM
20490	Ε	Emerald	
23980 Jet	F	Fuchsia	
23980 27231 Hem Jet Hematite	G	Garnet	90120
30020 Light Sapphire		Gold Quartz	00530
30050	Н	Hyacinth	90040
30340	- 1	Indicolite	60100
40010	J	Jet	23980
50000		Jet Hematite	23980 27231 Hem
50230 Olivine		Jonquil	80100
50520	L	Light Amethyst	20020
50730		Light Colorado Topaz	10330
60000		Light Peach	90300
60010		Light Rose	70020
60100		Light Sapphire	30020
60230		Light Siam	90070
60310	M	Montana	30340
63030	0	Olivine	50230
70010	P	Peridot	50520
70020 Light Rose		Purple Velvet	20490
70350	R	Rose	70010
80100		Ruby	90110
80310	S	Sapphire	
90040		Siam	
90070 Light Siam		Smoked Topaz	
90090		Sun	
90110	T	Tanzanite	
90120		Topaz	
90300 Light Peach		Turquoise	
90310	V	Violet	
93180	W	White Opal	U1000

MC Chaton MAXIMA





			^ ^ ^ /	\ \ \ \ \	^ ^ ^	$\wedge \wedge \wedge$	^ ^ ^	^ ^ ^	^ ^
COLOUR	_	\$ 10 \2						\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0/1/0
OLUUN				3 3	W W 3	3, 0, 0,	V (V (Ø)	9. 3. 3.	Y Y
Crystal 00030	(DF)	• •	• •	• • •	• • •	• • • •	• •	• • •	• •
Crystal AB 00030 (TC)	(DF)	•	• •	• • •	• • •	• • • •	• •	• • •	• •
Security Crystal Apri 00030 (BC)	(A)	•	• •	• • •	• • •	• • •	•	•	•
Crystal Aur 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Security Crystal BBI 00030 (BC)	(A)	•	• •	• • •	• • •	• • •	•	•	•
Crystal CaG 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Crystal Hon 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Crystal Lab 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Crystal MtC 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Scrystal Vel 00030 (TC)	(DF)	•	• •	• • •	• • •	• • •	•	•	•
Crystal VL 00030 (BC)	(A)	•	• •	• • •	• • •	• • •	•	•	•
Crystal VM 00030 (BC)	(A)	•	• •	• • •	• • •	• • •	•	•	•
Jet 23980	(DF)	• •	• •	• • •	• • •	• • • •	• • •	• • •	• •
Jet Hem 23980 (TC)	(DF)	•	• •	• • •	• • •	• • • •	• •	• • •	• •
A	(DE)								
Amethyst 20050	(DF)								
Amethyst AB 20050 (TC)	(DF)								
Aqua Bohemica 60010	(DF)								
Aqua Bohemica AB 60010 (TC									
Aquamarine 60000	(DF)								
■ Black Diamond 40010 ■ Blue Zircon 60230	(DF)								
Capri Blue 60310	(DF)								
Citrine 80310	(DF)								
Coral 93180	(DF)								
.									
Emerald 50/30 (TC)	(DF)								
Fuchsia 70350	(DF)								
Garnet 90120	(DF)								
Gold Quartz 00530	(DF)								
### Hyacinth 90040	(DF)								
Chrysolite 50000	(DF)								
Indicolite 60100	(DF)								
Sonquil 80100	(DF)	ĬĬ	ĬĬ		III				
Jonquii 00100	(DE)		•						



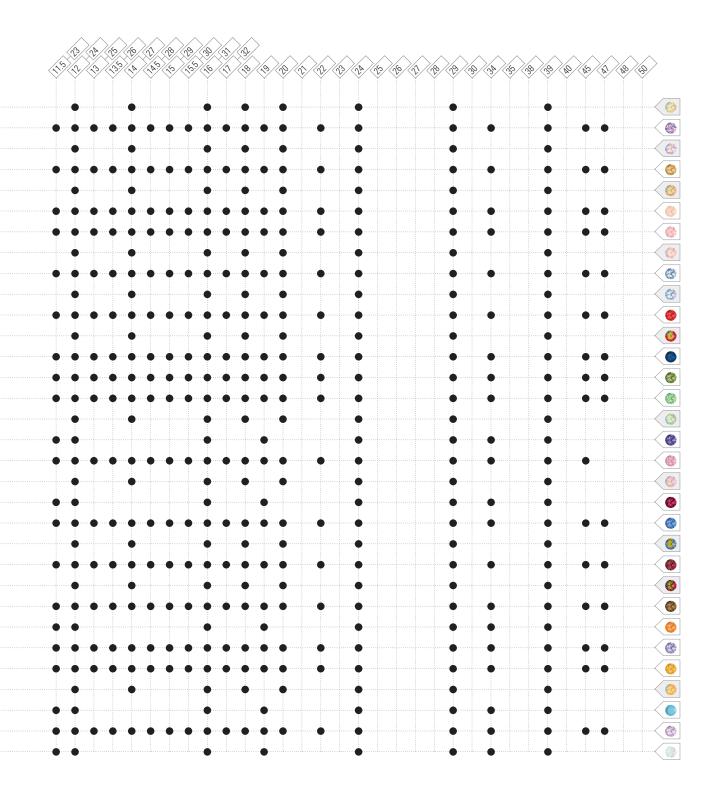


ART. 431 11 111 | SIZE ss00-ss2



ART. 431 11 615 | SIZE ss2.5-ss50

LOUR	
Jonquil AB 80100	(TC) (DF)
Light Amethyst 20020	(DF)
Light Amethyst AB 2002	20 (TC) (DF)
Light Colorado Topaz 1	0330 (DF)
Light Color. Topaz AB 1	0330 (TC) (DF)
🤔 Light Peach 90300	(DF)
Character Rose 70020	(DF)
Characteristics Light Rose AB 70020	(TC) (DF)
Capphire 30020	(DF)
Light Sapphire AB 3002	20 (TC) (DF)
light Siam 90070	(DF)
Light Siam AB 90070	(TC) (DF)
Montana 30340	(DF)
Olivine 50230	(DF)
Peridot 50520	(DF)
Peridot AB 50520	(TC) (DF)
Purple Velvet 20490	(DF)
Rose 70010	(DF)
Rose AB 70010	(TC) (DF)
Ruby 90110	(DF)
Sapphire 30050	(DF)
Sapphire AB 30050	(TC) (DF)
Siam 90090	(DF)
Siam AB 90090	(TC) (DF)
Smoked Topaz 10220	(DF)
Sun 90310	(DF)
Tanzanite 20410	(DF)
🤔 Topaz 10070	(DF)
Topaz AB 10070	(TC) (DF)
Turquoise 63030	(DF)
Violet 20310	(DF)
White Opal 01000	(DF)



 $\mathsf{TC}-\mathsf{TOP}\;\mathsf{COATING}$



BC – BOTTOM COATING



A – ALUMINIUM PROTECTIVE LAYER



DF — DURA-FOILING™

Conversion Table of Sizes

SS	pp	ø mm	1:1
00	2	0.90-1.00	•
0	3	1.00-1.10	•
1	4	1.10-1.20	•
2	5	1.20-1.30	•
21/2	6	1.30-1.35	•
3	7	1.35–1.40	•
31/2	8	1.40-1.50	•
4	9	1.50-1.60	•
41/2	10	1.60-1.70	•
5	11	1.70-1.80	•
51/2	12	1.80-1.90	•
6	13	1.90-2.00	•
61/2	14	2.00-2.10	•
7	15	2.10-2.20	•
71/2	16	2.20-2.30	•
8	17	2.30-2.40	•
81/2	18	2.40-2.50	•
9	19	2.50-2.60	•
91/2	20	2.60-2.70	•
10	21	2.70-2.80	•
11	22	2.80-2.90	•
111/2	23	2.90-3.00	•
12	24	3.00-3.20	

SS	pp	ø mm	1:1
13	25	3.20-3.30	
131/2	26	3.30-3.40	
14	27	3.40-3.50	
141/2	28	3.50-3.60	
15	29	3.60-3.70	
151/2	30	3.70-3.80	
16	31	3.80-4.00	
17	32	4.00-4.20	
18	_	4.20-4.40	
19	_	4.40-4.60	
20	_	4.60-4.80	
21	_	4.80-4.90	
22	_	4.90-5.10	
23	_	5.10-5.25	
24	_	5.25-5.45	
25	_	5.45-5.60	
26	_	5.60-5.80	
27	_	5.80-6.00	

SS	pp	ø mm	1:1
28	_	6.00-6.15	
29	_	6.15–6.35	
30	_	6.35–6.50	
34	_	7.05–7.25	
35	_	7.25–7.50	
38	_	7.90–8.15	
39	_	8.15–8.40	
40	_	8.40-8.65	
45	_	9.85–10.20	
47	_	10.55–10.90	
48	_	10.90–11.30	
50	_	11.70–11.95	

 $\label{lem:decomposition} \textbf{D} \textbf{imension tolerances of marked sizes were changed}.$

Packaging and Weight

MC Chaton MAXIMA | ART. 431 11 615

Size Packaging Unit Number of Stones in Packaging Unit Winther of Stones in Box Average Weight of Standard Box (Crystal) SS PP Type Gross Gross Gross 2.5 6 ENVELOPE 10 1,300 1,200 3.5 8 ENVELOPE 10 1,200 1,350 4 9 ENVELOPE 10 1,100 1,400 4.5 10 ENVELOPE 10 1,100 1,400 5.5 12 ENVELOPE 10 1,100 1,550 6 13 ENVELOPE 10 1,000 1,550 6.5 14 ENVELOPE 10 1,000 1,750 7 15 ENVELOPE 10 900 1,750 7.5 16 ENVELOPE 10 800 1,600 8 17 ENVELOPE 10 700 1,550 9 19 ENVELOPE 10 700 1,550 <	IVIC	o. iator	WARTE 431 11 013						
25	Size		Packaging Unit	Stones in Packaging	Stones in Standard	Weight of Standard			
3 7 ENVELOPE 10 1,300 1,200 3.5 8 ENVELOPE 10 1,200 1,350 4 9 ENVELOPE 10 1,200 1,450 4.5 10 ENVELOPE 10 1,100 1,560 5 11 ENVELOPE 10 1,000 1,550 6 13 ENVELOPE 10 1,000 1,750 7 15 ENVELOPE 10 900 1,750 7.5 16 ENVELOPE 10 800 1,600 8 17 ENVELOPE 10 800 1,700 8.5 18 ENVELOPE 10 700 1,650 9 19 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,800 10 21 ENVELOPE 10 700 1,800 11 22 ENVELOPE 10	SS	PP	Түре	Gross	Gross	Gram			
Second Part	2.5	6	ENVELOPE	10	1,300	1,200			
4 9 ENVELOPE 10 1.200 1.450 4.5 10 ENVELOPE 10 1.100 1,400 5 11 ENVELOPE 10 1,100 1,500 5.5 12 ENVELOPE 10 1,000 1,550 6 13 ENVELOPE 10 1,000 1,750 7 15 ENVELOPE 10 900 1,750 7.5 16 ENVELOPE 10 800 1,700 8. 17 ENVELOPE 10 800 1,700 8.5 18 ENVELOPE 10 700 1,650 9 19 ENVELOPE 10 700 1,650 9 19 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,900 11. 22 ENVELOPE 10	3	7	ENVELOPE	10	1,300	1,200			
4.5 10 ENVELOPE 10 1,100 1,400 5 11 ENVELOPE 10 1,100 1,500 5.5 12 ENVELOPE 10 1,000 1,550 6 13 ENVELOPE 10 1,000 1,750 7 15 ENVELOPE 10 900 1,750 7.5 16 ENVELOPE 10 800 1,600 8.5 18 ENVELOPE 10 800 1,700 9. 19 ENVELOPE 10 700 1,650 9 19 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,800 10 21 ENVELOPE 10 700 1,900 11.5 23 ENVELOPE 10 600 2,100 11.5 23 ENVELOPE 10 600 2,200 13.3 25 ENVELOPE 10 <td>3.5</td> <td>8</td> <td>ENVELOPE</td> <td>10</td> <td>1,200</td> <td>1,350</td>	3.5	8	ENVELOPE	10	1,200	1,350			
5 11 ENVELOPE 10 1,100 1,550 5.5 12 ENVELOPE 10 1,000 1,550 6 13 ENVELOPE 10 1,000 1,550 6.5 14 ENVELOPE 10 900 1,750 7 15 ENVELOPE 10 800 1,600 8 17 ENVELOPE 10 800 1,700 8.5 18 ENVELOPE 10 700 1,650 9 19 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,800 10 21 ENVELOPE 10 700 2,100 11.5 23 ENVELOPE 10 700 2,100 11.5 23 ENVELOPE 10 500 2,150 13. 25 ENVELOPE 10	4	9	ENVELOPE	10	1,200	1,450			
5.5 12 ENVELOPE 10 1,000 1,550 6 13 ENVELOPE 10 1,000 1,650 6.5 14 ENVELOPE 10 1,000 1,750 7 15 ENVELOPE 10 900 1,750 7.5 16 ENVELOPE 10 800 1,700 8.5 18 ENVELOPE 10 700 1,850 9 19 ENVELOPE 10 700 1,750 9.5 20 ENVELOPE 10 700 1,800 10 21 ENVELOPE 10 700 1,900 11 22 ENVELOPE 10 700 2,100 11 22 ENVELOPE 10 600 2,200 13 25 ENVELOPE 10 500 2,150 13 25 ENVELOPE 10 500 2,200 14.5 28 ENVELOPE 10	4.5	10	ENVELOPE	10	1,100	1,400			
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MC Chaton MAXIMA | ART. 431 11 111

Size		Packaging Unit	Number of Stones in Packaging Unit	Number of Stones in Standard Box	Average Weight of Standard Box (Crystal)
SS	PP	Түре	Gross	Gross	GRAM
00	2	ENVELOPE	10	1,400	1,200
0	3	ENVELOPE	10	1,400	1,200
1	4	ENVELOPE	10	1,400	1,250
2	5	ENVELOPE	10	1,400	1,250

USER INSTRUCTIONS

Gluing
Electroplating
Soldering

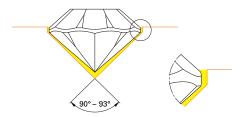


Preciosa pays close attention to the ongoing improvement of the technical properties of its fashion jewellery stones. Below are some useful tips on how to work with MC Chaton MAXIMA.

Gluing

The correct choice of adhesive is essential for the successful gluing of MAXIMA products onto various materials.

The ideal cavity for the MC Chaton MAXIMA has an angle of 90°–93°. The diameter and depth of the cavity should be at least 0.1mm larger than that of the chaton.



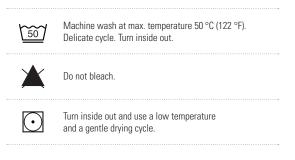
SUITABLE GLUES FOR FASHION JEWELLERY MATERIALS

One-Component Glues

Two-Component Glues

GLUE	PRODUCER
Plus 300 Endfest (UHU Plus Endfest 300)	UHU GmbH
RBC Adhesive 118	RBC Industries, INC
Loctite 0151 Hysol	Loctite Corp. (Henkel Corp.)
Hezhong GH-AAA	Yiwu Hebang Adhesives trad. comp.
Araldite	Huntsman Corp.
Araldit	Ceys
Epoxy Universal	Bison International

CARE INSTRUCTIONS





Do not iron.



Professional dry clean with petroleum solvent. Delicate cycle. Turn inside out.



Professional wash. Delicate cycle. Turn inside out.

Electroplating

GENERAL RULES AND RECOMMENDATIONS FOR ELECTROLYTIC FINISHES

MC Chaton MAXIMA with *Dura-Foiling*™ guarantees excellent resistance of the stones' foil layer and effective problem-free application.

Before the electroplating can begin, various preparatory techniques, mainly cleaning the surfaces of the electroplated objects, must occur in order to ensure quality plating.

1. CAREFUL STONE TREATMENT

Setting stones in cup chains must be done cautiously and carefully in order not to chip the stones' edges and to avoid damaging the protective lacquer.

2. PROPER DEGREASING

Hot Degreasing

A warm alkaline electrolytic bath is usually used as the first stage of degreasing to remove most of the impurities and soldering residues. After the degreasing process, the product should be rinsed in water at room temperature for 30 seconds. It is possible to markedly accelerate this process by using ultrasound.

Warning: If the degreasing time is too long or the ultrasound used is too strong, the protective lacquer applied to the reflective layer may become damaged.

Electrolytic Degreasing

Electrolytic degreasing is suitable as the second stage of the final degreasing, for fashion jewellery formed from cup chains of brass and other nonferrous metals. Cathodic degreasing is used only.

After electrolytic degreasing, rinsing the product in water at room temperature for 30 seconds is sufficient.

Warning: The recommended current density and degreasing times must not be exceeded; otherwise the stones' reflective layer may become damaged.

For basic bath parameters see table on next page.

3. PICKLING IS REQUIRED (ACTIVATING)

To remove oxides and soldering residues, pickling is carried out in dilute acids (5% HCl or 5-10% $\rm H_2SO_4$). The product should be rinsed after the pickling process in water at room temperature for 30 seconds.

 $\mathbf{Warning:}$ Never use nitric acid (HNO $_{\! 3}\!)$ for pickling as it etches the tin solder.

For basic bath parameters see table on next page.

4. PLATING

All operations that follow after the fashion jewellery components have been soldered together must be carried out quickly and sequentially to avoid time delays.

For basic bath parameters see table on next page.

Cyanide Copper Plating

- » The utmost caution must be exercised when using cyanide copper baths.
- » This technique improves the adhesion of the copper deposit to the product's surface. Under certain conditions, copper deposits do not adhere well to the solder used.

WADNING

- » The current density and degreasing times must not be exceeded; otherwise the stones' reflective layer may become damaged.
- » It is strongly recommended to avoid using cyanide brass or bronzing baths.

Bright Copper Plating

» A glossy sulphurous copper bath is highly recommended because it is able to smooth the unevenness of the product's surface, adding a high gloss to it.

WARNING:

» The stones' AB layer, if used, may become unintentionally plated as well, and thus damaged if the recommended plating times are exceeded.

Nickel Plating

- » As nickel (Ni) is an allergen, nickel plating is not used for safety reasons. The Ni layer is usually substituted with palladium or silver.
- » If it is possible or necessary to use nickel plating, the usual chloride nickel bath is recommended. This bath does not damage fashion jewellery stones.

WARNING:

» When stones with the AB layer are used, their surface is often quickly and unintentionally plated. If this is the case, the plating time should not exceed three minutes.

Palladium Plating

- » Palladium is used instead of nickel as a white interlayer.
- » Using bronze as a substitute for nickel is not suitable because the bronze bath's aggressive nature damages fashion jewellery stones.

Silver Plating

» Even though silvering baths have a high cyanide content and are highly alkaline, they work at room temperature and therefore do not damage the stones.

Rhodium Plating

- » Rhodium baths based on sulphates or phosphates deposit highly glossy layers. The baths' chemical properties are not detrimental to fashion jewellery stones.
- » Rinsing the product after the final rhodium plating process must be done in two stages:
 - a) In water at room temperature for 30 seconds.
 - b) A final rinse in water at a temperature of $60^{\circ}\text{C}/140^{\circ}\text{F}$ for 30 seconds.
- » Rinsing is then followed by drying the product in a dryer at a temperature of T $< 90^{\circ}$ C/194°F.

Gold Plating

- » For gold plating, two types of gilding baths are used: either the alkaline one (pH 9-10), or the acid one (pH 3-4).
- » The gilding bath's chemical properties are not detrimental to fashion jewellery stones.
- » Alkaline baths deposit layers of $< 0.2 \mu m$ thickness.
- » If thicker gold layers are required (up to 1 μ m), it is necessary to use an acid gilding bath.
- » Rinsing the product after the final cold plating process must be done in two stages:
 - a) In water at room temperature for 30 seconds.
 - b) A final rinse in water at a temperature of $60^{\circ}\text{C}/140^{\circ}\text{F}$ for 30 seconds.
- » The final rinse is then followed by drying the product in a dryer at a temperature of T < 90°C/194°F.</p>

5. TARNISH PROTECTION

To protect cup fashion jewellery's metal parts, electrophoretic coating (cataphoresis) is commonly used. This technique enables organic lacquers (mostly acrylic water-based) to be deposited evenly on electrically conductive fashion jewellery parts, allowing the glass stones to remain uncoated. The lacquers' chemical properties are not detrimental to fashion jewellery stones.

6. TROUBLESHOOTING

Problem	SOLUTION
Imperfect appearance of the product's surface before electroplating	Clean the product thoroughly; first mechanically, then chemically, using a degreasing bath, and finally rinse the product thoroughly.
Rough surface after electroplating (an "orange-peel" texture)	Polish the surface better next time, or perhaps check the technical properties of the electroplating bath used.
Tarnished surfaces	Rinse the product with pure water only — demineralised water (electric conductivity < 15µS/cm) is strongly recommended. Always minimize time delays between individual successive operations.

BASIC PARAMETERS OF ELECTROPLATING BATHS

0 : 1		Temperature		Acidity/ Alkalinity Time		Current Density	Rinsing		Drying
Operation/ Plating	Bath Description	°C	°F	рH	Ultrasound Yes / No	A/dm2	1st Stage T= 20° C 68° F	2 nd Stage T= 60° C 140° F	T= 90° C 194° F
Hot Degreasing	Alkaline electroless bath	< 60°C	< 140°F	< 12,5	yes<2min no<5min		30 sec.	no	no
Electrolytic Degreasing	Alkaline bath for cathodic degreasing	< 45° C	< 113°F	< 12,0	no < 20 sec.	< 3 A/dm2	30 sec	no	no
Pickling	Dilute acids 5% HCl or 5-10% H ₂ SO ₄	< 30°C	< 85° F	<1	no < 20 sec.		30 sec.	no	no
Cyanide Copper Plating	Warm cyanide copper bath	< 60°C	< 140°F	< 10,5	no < 30 sec.	< 2 A/dm2	30 sec.	no	no
Bright Copper Plating	Glossy acid sulphurous copper bath	< 30°C	< 85° F	<1	no < 10 min.	< 3 A/dm2	30 sec.	no	no
Nickel Plating	Chloride or sulphurous nickel bath	< 60°C	< 140°F	4 - 5	no < 20 min.	< 9 A/dm2	30 sec.	no	no
Palladium Plating	Cold, weakly alkaline bath	< 30°C	< 85° F	< 8 - 9	no < 2 min.	< 1 A/dm2	30 sec.	no	no
Silver Plating	Cold cyanide bath	< 30°C	< 85° F	< 12,0	no < 1 min.	< 2 A/dm2	30 sec.	no	no
Rhodium Plating	Sulphate- or phosphate- based baths	< 50° C	< 121°F	<1	no < 1 min.	< 1 A/dm2	30 sec.	30 sec.	yes
Gold Plating I	Acid gilding bath	< 60° C	< 140°F	2 - 5	no < 1 min.	< 1 A/dm2	30 sec.	30 sec.	yes
Gold Plating II	Alkaline cyanide gilding bath	< 60° C	< 140°F	9 - 10	no < 1 min.	< 1 A/dm2	30 sec.	30 sec.	yes

Soldering

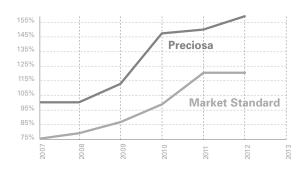
THE FOIL'S RESISTANCE – AN IMPORTANT CONDITION FOR SOLDERING

Foiling Limitary Point of Resistibility (FLPR)

Being well aware of the importance of the FLPR parameter, Preciosa constantly advances the FLRP's frontiers to achieve greater effectiveness.

For decades, fashion jewellery stones by Preciosa have been considered to be among the most resistant in the world. Constant improvements to the foiling formula have made it possible to continuously raise the level of FLPR and to keep ahead of the competition. *Dura-Foiling™* on the MC Chaton MAXIMA reduces the impact of some faults in the soldering technique, contributes to the immaculate appearance of the final product, and achieves the highest possible manufacturing productivity.

The Development of FLPR between 2007-2012



WORKING PROCEDURE FOR SOLDERING FASHION JEWELLERY COMPONENTS

Degrease the Chain Thoroughly

Before setting the stones in cups, the chain must be degreased and dry. To degrease, you can use either organic solvents or a water solution with suitable detergents. It is also possible to degrease the chain using bright pickling. Thorough degreasing is required in order to avoid burning the surface impurities during soldering. Such residual impurities might later pose an obstacle to achieving quality metal layers created by electroplating techniques that give the product a shiny finish.

Set the Stones in the Chain's Cups

After the chain has been thoroughly degreased, select stones of an adequate size and set them in the chain's cups. Then, using pliers, divide the chain with stones into desired lengths.

Imprint the Sample Product in the Substance

Using tweezers, place the finished sample product on the prepared substance with the top facet of the stones (i.e. table) facing down. Then apply gentle and evenly-distributed pressure to the samples using a flat tool, thus making the samples' imprints in the substance. Then remove the samples carefully from the plate.

Place the Cut Sections of the Chain in the Imprints

Using tweezers, take the prepared sections of the chain and place them in the imprints, laying them so that the stones' tables face down.

Join Individual Chain Sections Together, Using Blowpipe and the Solder

Adjust the flame of the blowpipe. Heat the area surrounding the soldered joint so that the molten solder can thoroughly spill over the area. Touch the heated joint with the solder (soldering wire) and heat once again. Keep heating the solder until it melts completely and fills the microscopic gap in the soldered joint.

Clean the Cooled Product

The Product is Now Ready for Further Treatment

Cleaned and dried, the product can be electroplated.

GENERAL RULES AND USEFUL ADVICE ON SOLDERING

By following the rules and suggestions below and using Preciosa stones, excellent results are guaranteed.

Working with the Girdler's Substance

The girdler's substance must be plastic and workable and mustn't dry out. Its function is to transfer the heat from the soldered product.

Working with the Blowpipe

- » Always select the solder's diameter depending on the product's thickness and dimensions.
- » You can reduce the probability of damaging the stones by using a blowpipe with an accurately pointed flame that can be aimed at the smallest area of the soldered joint with pinpoint accuracy.
- » When soldering, do not aim the tip of the flame at one point of the joint. Continuously move the flame gently along the entire length of the joint.

Working with the Solder (Soldering Wire)

- » The amount of solder used when soldering fashion jewellery components (chain cups) must be proportional to the soldered components' size.
- » A disproportionately large amount of solder may cause it to run into the cups with set stones. This causes damage to the foil's protective layer on the stones' backs, resulting in an irreversible change to the stones' appearance.
- » Too small an amount of solder results in a weakened soldered joint.
- » The recommended gap width between soldered components is 0.1 0.3 mm
- » The recommended diameter of soldering wire is up to 1mm max.
- » The solder's recommended melting point is 190°C/374°F max.
- » When soldering, care should be taken to only heat the immediate neighbourhood of the soldered parts, allowing the solder to run into the gap between them.
- » We do not recommend heating the entire surface of the product with the solder pre-applied to it.

TROUBLESHOOTING

Problem	Solution
Faulty imprints	Re-imprint the sample product.
The solder didn't melt – the solder as well as the substance were not heated up sufficiently	Clean the solder as well as the soldered joint mechanically and start soldering again; check that the type of solder used is suitable for soldering, if not, replace it.
Too large an amount of molten solder – caused by repeated soldering or by using unsuitable solder	Remove the solder mechanically and clean the joint, e.g. using fine abrasive paper.
Stones flooded by molten solder – caused by the girdler's inattention, usually heating up the joint for too long	Remove the solder mechanically, sort out the affected stones, replace them with new ones and reset.
Yellow or cracked stones – caused by overheating the stones for an excessively long time	Replace the damaged stones with new ones and set them.

Notes

