







PRECIOSA® COMPONENTS















## 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<sup>®</sup> GENUINE CZECH CRYSTAL<sup>™</sup>

► 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<sup>TM</sup> an internationally recognized symbol of quality.

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

## MAIN FEATURES

**CRYSTAL** The Look and Feel of Full-Lead Crystal

2

**сит** Perfect Geometry and Improved Optical Properties

3

European Quality and Reliability

4

### CONFIDENCE

Superior Durability and Easy Proof of Authenticity

5

CERTIFICATION

Taking Responsibility for Tomorrow

# **MAXIMA** by PRECIOSA<sup>®</sup> Lead-Free Brilliance

MAXIMA is the premium Preciosa<sup>®</sup> GENUINE CZECH CRYSTAL<sup>™</sup> lead-free<sup>\*</sup> 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<sup>®</sup> is 100% made in the Czech Republic.

Lead-Free Brilliance



# MC CHATON MAXIMA by PRECIOSA<sup>®</sup>

MC Chaton MAXIMA combines, for the first time in history, highquality lead-free\* crystal made with  $Preciosa^{\ensuremath{\mathbb{R}}}$  *Hi-Pure Crystal* <sup>TM</sup> technology with an original patented 15-facet cut which is foiled with the innovative *Dura-Foiling*<sup>TM</sup> layer.

The result is a Preciosa<sup>®</sup> GENUINE CZECH CRYSTAL<sup>™</sup> 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* <sup>TM</sup> 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 CHATON** MARKET STANDARD 8-FACFT



**100% Light Distribution** 

MC CHATON MAXIMA ART. 431 11 615 15-FACET





200% Light Distribution





### European Quality and Reliability



MAXIMA by Preciosa<sup>®</sup> 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 41 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*<sup>TM</sup> layer, which guarantees perfect light reflection and superior resilience. The cool goldish-silver *Dura-Foiling*<sup>TM</sup> 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*<sup>™</sup> 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-Foiling*<sup>TM</sup> 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





### PACKAGING OF MAXIMA

The MC Chaton MAXIMA now comes in an 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<sup>®</sup> GENUINE CZECH CRYSTAL<sup>™</sup> 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<sup>\*\*</sup>, MAXIMA does not contain cadmium or chrome<sup>6+</sup> and all MAXIMA crystal components are barium-free. The special *Dura-Foiling*<sup>™</sup> 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 \*\*

\* Lead content < 0.009% (< 90ppm)

\*\* Except Citrine, Sun, Hyacinth, Coral, Light Siam, Siam and Garnet

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**.

# PRODUCT INFORMATION



### Product Range

The MC Chaton MAXIMA comes in the full range of 41 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*<sup>™</sup> layer
- ✓ Come in the newly designed packaging





\* Lead content < 0.009% (< 90ppm)

### Colours



00030 Jet

Crystal

23980



White Opal 01000



Black Diamond 40010 Aquamarine

60000

60010

30020

30050

30340

Sapphire

Montana

Indicolite 60100

Blue Zircon

Chrysolite

60230

50000

Peridot

Emerald

50730

Olivine

50230

Jonquil 80100

Citrine

80310

Topaz 10070

50520

Aqua Bohemica

**Light Sapphire** 





Turquoise 63030





Capri Blue 60310



















**Light Colorado Topaz** 10330



Gold Quartz

Light Peach 90300

00530

Light Rose 70020



Indian Pink 70040

Fuchsia 70350



Sun 90310

Hyacinth 90040



Light Siam 90070



Garnet 90120



Amethyst 20050

Light Amethyst 20020



Tanzanite 20410



### Coatings



**Crystal AB** 00030 AB



**Crystal Velvet\*** 00030 Vel

**Crystal Honey** 

00030 Hon

00030 BdF

00030 Aur



**Crystal Celsian** 00030 Cel





**Crystal Monte Carlo\*** 00030 MtC

**Crystal Aurum\*** 

Crystal Blond Flare\*

**Crystal Capri Gold\*** 00030 CaG

**Crystal Apricot\*** 



**Crystal Vitrail Light\*** 00030 VL



Crystal Vitrail Medium\* 00030 VM



Crystal Bermuda Blue\* 00030 BBI Crystal Heliotrope\*



Crystal Labrador\* 00030 Lab

00030 Hel



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.





00030 Apri

### NUMERICAL ORDER

00030	
00030 20031 AB	. Crystal AB
00030 22531 Cel	. Crystal Celsian
00030 23531 Hon	. Crystal Honey
00030 23931 BdF	
00030 24231 AgF	Crystal Argent Flare
00030 26231 Aur	
00030 26536 VL	
00030 26636 Apri	
00030 27031 Lab	
00030 27131 CaG	
00030 27131 GdG	Crivetal Marita Carla
00030 27731 MtC	. Crystal Monte Carlo
00030 27931 Vel	. Crystal velvet
00030 28136 VM	
00030 29536 Hel	
00030 29636 BBI	
00530	
01000	
10070	. Topaz
10220	. Smoked Topaz
10330	. Light Colorado Topaz
20020	. Light Amethyst
20050	
20310	
20410	
20490	
23980	
23980 27231 Hem	
30020	
30050	
30340	
40010	
50000	
50230	
50520	
50730	
60000	
60010	
60100	. Indicolite
60230	. Blue Zircon
60310	. Capri Blue
63030	. Turquoise
70010	. Rose
70020	
70040	
70350	
80100	
80310	
90040	
	•
90090	
90100	• •
90110	,
90120	
90300	•
90310	
93180	. Coral

### ALPHABETICAL ORDER

Α	Amethyst	20050
~	Aqua Bohemica	
	Aquamarine	
В	Black Diamond.	
	Blue Zircon	
	Burgundy	
C	Capri Blue	
v	Chrysolite	
	Citrine	
	Coral	
	Crystal	
	Crystal AB.	
	Crystal Apricot	
	Crystal Argent Flare	
	Crystal Aurum	
	Crystal Bermuda Blue	
	Crystal Blond Flare	
	Crystal Capri Gold	
	Crystal Celsian	
	Crystal Heliotrope	
	Crystal Honey	
	Crystal Labrador	
	Crystal Monte Carlo	
	Crystal Velvet	00030 27931 Vel
	Crystal Vitrail Light	
	Crystal Vitrail Medium	00030 28136 VM
Ε	Emerald	50730
F	Fuchsia	70350
G	Garnet	90120
	Gold Quartz	00530
Н	Hyacinth	
I	Indian Pink	
	Indicolite	
J	Jet	
	Jet Hematite	
	Jonquil	
L	Light Amethyst	
	Light Colorado Topaz	
	Light Peach	
	Light Rose	
	Light Siam	
м	Montana	
0	Olivine	
P	Peridot	
•	Purple Velvet	
R	Rose	
	Ruby	
S	Sapphire	30050
	Siam	
	Smoked Topaz	
	Sun	
Т	Tanzanite	
	Topaz	10070
	Turquoise	
۷	Violet	
w	White Opal	01000

### MC Chaton MAXIMA

ART. 431 11 111 | SIZE ss00-ss2

COLOUR    Crystal AD    0033    (DF)      © Crystal AB    00030    (TC)    (DF)      © Crystal AU    00030    (TC)    (DF)      © Crystal VI    00030    (TC)    (DF)      © Crystal VI    00030    (TC)    (DF)      © Crystal VI    00030    (TC)    (DF)      © Artsi VM    00030    (TC)    (DF)      © Artsi VM    00030    (DF)    (DF)      © Ametryst AB    20050    (DF)    (DF)      © Ametryst AB    20050    (DF)    (DF)      © Aguamarine   60010    (DF)    (DF)    (DF)      © Black Diamed   4010    (DF)    (DF)    (DF)      © Bilex Imad   50100    (DF)    (DF			
Image: Crystal   00030    (DB)      Image: Crystal April 00030    (TC)      Image: Crystal April 00030    (BC)      Image: Crystal BB   00030    (TC)      Image: Crystal BB   00030    (TC)      Image: Crystal CaG    00030      Image: Crystal CaG    00030      Image: Crystal CaG    00030      Image: Crystal Lab    00030      Image: Crystal VL    00030      Image:	COLOUR		
Crystal April 00030    (TC) 0P      Crystal April 00030    (RC) (A)      Crystal Abril 00030    (RC) (A)      Crystal Abril 00030    (RC) (D)      Crystal VL   00030    (RC) (A)      Crystal VL   00030    (RC) (D)      Cryst			
Brystal Apri    00030    (B2)    (A)      Crystal Aur    00030    (TC)    (DF)      Crystal CaG    00030    (TC)    (DF)      Crystal CaG    00030    (TC)    (DF)      Crystal CaG    00030    (TC)    (DF)      Crystal Lab    00030    (TC)    (DF)      Crystal Kab    00030    (TC)    (DF)      Crystal Kab    00030    (TC)    (DF)      Crystal Val    00030    (TC)    (DF)      Crystal Val    00030    (TC)    (DF)      Crystal Val    00030    (DF)    (DF)      Crystal Val    00030    (DF)    (DF)      Amethyst AB    20050    (DF)    (DF)      Auu Bohemica AB    60010    (DF)    (DF)      Auu Bohemica AB    60010    (DF)    (DF)      Biack Diamond    40010    (DF)    (DF)<			(DF)
Crystal Aur    00030    (TC)    (DF)      Crystal BBI    00030    (TC)    (DF)      Crystal CGG    00030    (TC)    (DF)      Crystal LAB    00030    (TC)    (DF)      Crystal KU    00030    (TC)    (DF)      Crystal KU    00030    (TC)    (DF)      Crystal VL    00030    (BC)    (A)      Crystal VL    00030    (BC)    (A)      Crystal VL    00030    (BC)    (A)      Crystal AB    23980    (DF)    (DF)      Crystal AB    20050    (TC)    (DF)      Crystal AB    60010    (TC)    (DF)      Crystal AB    60010    (DF)    (DF)		D (TC)	
<sup>©</sup> Crystal EdB   00030 (EC) (A) <sup>©</sup> Crystal Ka   00030 (TC) (D) <sup>©</sup> Crystal Ka   00030 (BC) (A) <sup>©</sup> Crystal VI   00030 (BC) (D) <sup>•</sup> Jet Hem   23880 (TC) (D) <sup>•</sup> Jet Hem   23880 (TC) (D) <sup>©</sup> Aqua Bohemica AB   60010 (TC) (D) <sup>©</sup> Aqua Bohemica AB   60010 (TC) (D) <sup>©</sup> Aqua Bohemica AB   60010 (TC) (D) <sup>©</sup> Burgundy   30100 (D) <sup>©</sup> Burgundy   30100 (D) <sup>©</sup> Crystal Bau   60310 (D) <sup>©</sup> Crystal Bau   60330 (D) <sup>©</sup> Eneratel   50730 (D) <sup>©</sup> Eneratel AB   50730 (D) <sup>©</sup> Eneratel AB   50730 (D) <sup>©</sup> Eneratel AB   50730 (D) <sup>©</sup> Crystal   33100 (D)	🏀 Crystal Apri   0003	30 (BC)	
Crystal CaG    00030    (TC)    0.0F      Crystal Lab    00030    (TC)    0.0F      Crystal Lab    00030    (TC)    0.0F      Crystal VL    00030    (BC)    (A)      Crystal VL    00030    (BC)    (A)      Jet    23980    (DF)      Jet    23980    (TC)    0.0F      Amethyst    20050    (DF)    (C)      Aua Bohemica    60010    (DF)      Aqua Bohemica AB    60010    (DF)      Aqua Bohemica AB    60010    (DF)      Burgundy    90100    (DF)      Burgundy    90100    (DF)      Burgundy    90100    (DF)      Crail    93180    (DF)      Crail    93180    (DF)      Emerald    50730    (DF)      Emerald    50730    (DF)      Emerald    50730	Crystal Aur   0003	0 (TC)	
Crystal Lab    00030    (TC)    (DF)      Crystal Lab    00030    (TC)    (DF)      Crystal VE      00030    (TC)    (DF)      Crystal VI      00030    (BC)    (A)      Crystal VI      00030    (BC)    (DF)      Amethyst      20050    (DF)    (C)      Amethyst      20050    (DF)    (C)      Aquamarine      60010    (DF)    (C)      Aquamarine      60000    (DF)    (DF)      Burgundy      9100    (DF)    (D)      Burgundy AB      90100    (DF)    (D)      Emerald AB      50730    (DF)    (D)	Srystal BBI   0003		
Crystal Lab    00030    (TC)    (DF)      © Crystal MtC    00030    (TC)    (DF)      © Crystal VL    00030    (BC)    (A)      © Crystal VL    00030    (BC)    (A)      © Logatal VL    00030    (BC)    (A)      © Logatal VL    00030    (BC)    (A)      © Let    23800    (DF)    (DF)      © Jet Hem    23980    (TC)    (DF)      @ Jet Hem    23980    (TC)    (DF)      @ Amethyst J    20050    (DF)    (DF)      @ Amethyst B    20050    (TC)    (DF)      @ Aquamarine    60010    (DF)    (DF)      @ Aquamarine    60000    (DF)    (DF)      @ Black Diamond    40010    (DF)    (DF)      @ Burgundy    90100    (DF)    (DF)      @ Carri Blue    60310    (DF)    (DF)      @ Carri Blue    60310    (DF)    (DF)      @ Carri Blue    60310    (DF)    (DF)      @ Carri Blue    50730    (DF)    (DF) <th></th> <th>30 (TC)</th> <th></th>		30 (TC)	
© Crystal MtC   00030    (TC)    (DF)      ※ Crystal VL   00030    (BC)    (A)      ※ Crystal VK   00030    (BC)    (A)      ※ Crystal VK   00030    (BC)    (A)      ※ Crystal VK   00030    (BC)    (A)      ※ drystal VK   00030    (BC)    (A)      ※ Jet Hem   23980    (DF)      ※ Jet Hem   23980    (TC)      ※ Amethyst AB   20050    (DF)      ※ Aqua Bohemica   60010    (DF)      ※ Aqua Bohemica AB   60010    (DF)      ※ Aquaemarine   60000    (DF)      ※ Black Diamond   40010    (DF)      ※ Burgundy   90100    (DF)      ※ Burgundy B   90100    (DF)      ※ Crist Blue   60310    (DF)      ※ Cravit Blue   50730    (DF)      ※ Cravit Blue   50730    (DF)      ※ Emerald B   50730    (DF)      ※ Emerald B   50730    (DF)      ※ Ganet   50730    (DF)      ※ Ganet   50730    (DF)      ※ Gold Quartz   00530    (DF)      ※ Gold Quartz   00530    (DF)      ※ Crysolite   50000    (DF)	-		
Scrystal Vel   00030 (TC) (DF)      Crystal VL   00030 (BC) (A)      Crystal VM   00030 (BC) (A)      Jet   23980 (DF)      Jet   23980 (DF)      Jet Hem   23980 (TC) (DF)      Amethyst   20050 (TC) (DF)      Amethyst B   20050 (TC) (DF)      Aue Bohemica   60010 (DF)      Aque Bohemica AB   60010 (TC) (DF)      Aque Bohemica AB   60010 (DF)      Black Diamond   40010 (DF)      Black Diamond   40010 (DF)      Burgundy   90100 (DF)      Carif Blue   60310 (DF)      Crime   80310 (DF)      Crime   80310 (DF)      Emerald   50730 (DF)      Emeral   50730 (DF)      Emeral   50730 (DF)      Fuchsia   70350 (DF)      Garat   90120 (DF)      Hyacinth   90040 (DF)      Hyacinth   90040 (DF)			
Image: Servestal VL    00030    (BC)    (A)      Image: Servestal VM    00030    (BC)    (A)      Image: Jet I 23380    (DF)    Jet I 23380    (DF)      Image: Jet Hem I 23380    (DF)    Jet I 23380    (DF)      Image: Jet Hem I 23380    (DF)    (DF)    (DF)      Image: Jet Hem I 23380    (DF)    (DF)    (DF)      Image: Jet Hem I 23380    (TC)    (DF)    (DF)      Image: Jet Hem I 23380    (DF)    (DF)    (DF)      Image: Jet Hem I 23380    (DF)    (DF)    (DF)      Image: Jet Hem I 23310			
Image: Crystal VM   00030 (BC) (A)      Jet   23980 (DF)      Jet Hem   23980 (TC) (DF)      Amethyst   20050 (DF)      Amethyst AB   20050 (TC) (DF)      Aqua Bohemica   60010 (DF)      Aqua Bohemica   60000 (DF)      Aquamarine   60000 (DF)      Black Diamond   40010 (DF)      Blue Zircon   60230 (DF)      Burgundy AB   90100 (DF)      Cryin   80310 (DF)      Corral   93180 (DF)      Corral   93180 (DF)      Emerald AB   50730 (DF)      Emerald AB   50730 (DF)      Fuchsia   70350 (DF)      Garnet   90120 (DF)      Fuchsia   70350 (DF)      Hyaeinth   90040 (DF)      Fuchsia   90040 (DF)      Fuchsia   90040 (DF)			
Jet   23980    (DF)      Jet Hem   23980    (TC)      Amethyst   20050    (DF)      Amethyst AB   20050    (DF)      Amethyst AB   20050    (DF)      Aqua Bohemica   60010    (DF)      Aqua Bohemica AB   60010    (DF)      Black Diamond   40010    (DF)      Blue Zircon   60230    (DF)      Burgundy   90100    (DF)      Burgundy AB   90100    (DF)      Bargundy AB   90100    (DF)      Bargundy AB   90100    (DF)      Emerald   50730    (DF)      Emerald   50730    (DF)      Fuchsia   70350    (DF)      Garnet   90120    (DF)      Garnet   90120    (DF)      Hyacinth   90040    (DF)      Hyacinth   90040    (DF)			
Jet Hem    23980    (TC)    (DF)	-	0 (BC)	
	-		
Image: Solution of the second seco	<b>Jet Hem</b>   23980	(TC)	(DF)
Image: Solution of the second seco	Amethyst   20050		(DF)
Aqua Bohemica AB   60010 (TC) (DF)      Aquamarine   60000 (DF)      Black Diamond   40010 (DF)      Blue Zircon   60230 (DF)      Burgundy   90100 (DF)      Burgundy AB   90100 (TC) (DF)      Burgundy AB   90100 (TC) (DF)      Capri Blue   60310 (DF)      Capri Blue   60310 (DF)      Coral   93180 (DF)      Emerald   50730 (DF)      Emerald AB   50730 (TC) (DF)      Garnet   90120 (DF)      Garnet   90120 (DF)      Hyacinth   90040 (DF)      Hyacinth   90040 (DF)		<b>)50</b> (TC)	(DF)
Aqua Bohemica AB   60010 (TC) (DF)      Aquamarine   60000 (DF)      Black Diamond   40010 (DF)      Blue Zircon   60230 (DF)      Burgundy   90100 (DF)      Burgundy AB   90100 (TC) (DF)      Burgundy AB   90100 (TC) (DF)      Capri Blue   60310 (DF)      Capri Blue   60310 (DF)      Coral   93180 (DF)      Emerald   50730 (DF)      Emerald AB   50730 (TC) (DF)      Garnet   90120 (DF)      Garnet   90120 (DF)      Hyacinth   90040 (DF)      Hyacinth   90040 (DF)			
Aquamarine    60000    (DF)      Black Diamond    40010    (DF)      Blue Zircon    60230    (DF)      Burgundy    90100    (DF)      Burgundy AB    90100    (DF)      Capri Blue    60310    (DF)      Citrine    80310    (DF)      Coral    93180    (DF)      Emerald    50730    (DF)      Emerald AB    50730    (DF)      Garnet    90120    (DF)      Garnet    90120    (DF)      Garnet    90120    (DF)      Hyacinth    90040    (DF)			
Image: Second	-		
	🛞 Black Diamond   4	40010	(DF)
Image: Second		30	(DF)
Image: Second	Burgundy   90100		(DF)
<sup>3</sup> Citrine   80310 (DF) <sup>6</sup> Coral   93180 (DF) <sup>6</sup> Emerald   50730 (DF) <sup>6</sup> Emerald AB   50730 (TC) (DF) <sup>6</sup> Fuchsia   70350 (DF) <sup>6</sup> Gold Quartz   00530 (DF) <sup>6</sup> Hyacinth   90040 (DF)	Burgundy AB   901	100 (TC)	(DF)
Coral   93180    (DF)      S Emerald   50730    (DF)      S Emerald AB   50730    (TC)      Main Structure    (TC)      S Fuchsia   70350    (DF)      S Garnet   90120    (DF)      S Gold Quartz   00530    (DF)      S Hyacinth   90040    (DF)      S Chrysolite   50000    (DF)	🍪 Capri Blue   60310	)	(DF)
Image: Semerald   50730    (DF)      Image: Semerald AB   50730    (TC)      Image: Semerald AB   50730    (DF)      Image: Semerald AB   50730    (DF)      Image: Semeral   90120    (DF)      Image: Semeral   90120    (DF)      Image: Semeral   90120    (DF)      Image: Semeral   90040    (DF)	🤔 Citrine   80310		(DF)
Image: Second constraints    Sorrad    (TC)    (DF)      Image: Second constraints    Sorrad    (DF)	<b>Coral</b>   93180		(DF)
Image: Second system    Image: Second system      Image: Second	Emerald   50730		(DF)
Garnet   90120      (DF)        Gold Quartz   00530      (DF)        Hyacinth   90040      (DF)        Chrysolite   50000      (DF)	🍪 Emerald AB   5073	30 (TC)	(DF)
Sold Quartz   00530      (DF)        Hyacinth   90040      (DF)        Chrysolite   50000      (DF)	🏀 Fuchsia   70350		(DF)
Image: Hyacinth   90040      (DF)        Image: Chrysolite   50000      (DF)	<b>Garnet</b>   90120		(DF)
Chrysolite   50000 (DF)	🛞 Gold Quartz   0053	30	(DF)
	🍪 Hyacinth   90040		(DF)
🍪 Indian Pink   70040 (DF)	🛞 Chrysolite   50000		(DF)
	🋞 Indian Pink   7004	0	(DF)







COLOUR	
🍪 Indian Pink AB   70040 (TC)	(DF)
Indicolite   60100	(DF)
🄲 <b>Jonquil</b>   80100	(DF)
Jonquil AB   80100 (TC)	(DF)
🎆 Light Amethyst   20020	(DF)
🔆 Light Amethyst AB   20020 (TC)	(DF)
🍪 Light Colorado Topaz   10330	(DF)
Light Color. Topaz AB   10330 (TC)	_
Light Peach   90300	(DF)
🛞 Light Rose   70020	(DF)
Light Rose AB   70020 (TC)	(DF)
Light Sapphire   30020	(DF)
C Light Sapphire AB   30020 (TC)	(DF)
Light Siam   90070	(DF)
Icight 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)
-	(DF)
Smoked Topaz   10220	(DF)
🍪 Sun   90310	(DF)
🎇 Tanzanite   20410	(DF)
🍪 <b>Topaz</b>   10070	(DF)
Topaz AB   10070 (TC)	(DF)
<b>Turquoise</b>   63030	(DF)
🛞 Violet   20310	(DF)
🛞 White Opal   01000	(DF)



TC – TOP COATING

BC – BOTTOM COATING





DF – DURA-FOILING™

### Conversion Table of Sizes

SS	рр	ø mm	1:1	SS	рр	ø mm	1:1	SS	рр	ø mm	1:1
00	2	0.90–1.00	•	13	25	3.20–3.30		28		6.00–6.15	
0	3	1.00–1.10	•	131/2	26	3.30–3.40	•				
1	4	1.10–1.20	•	14	27	3.40–3.50		29	_	6.15–6.35	
2	5	1.20–1.30	•	14				30	_	6.35-6.50	
21/2	6	1.30–1.35	•	141/2	28	3.50–3.60					
3	7	1.35–1.40	•	15	29	3.60–3.70		34	—	7.05–7.25	
31/2	8	1.40–1.50	•	151/2	30	3.70–3.80		35	_	7.25–7.50	
4	9	1.50–1.60	•	16	31	3.80–4.00					
41/2	10	1.60–1.70	•	47		4 00 4 00		38	_	7.90-8.15	
5	11	1.70–1.80	•	17	32	4.00–4.20					
51/2	12	1.80–1.90	•	18	—	4.20–4.40		39	—	8.15-8.40	
6	13	1.90–2.00	•	19	_	4.40-4.60				0.40.0.05	
61/2	14	2.00–2.10	•	20		4.60-4.80		40	_	8.40-8.65	
7	15	2.10–2.20	•	20	_	4.00-4.00		45	_	9.85–10.20	
71/2	16	2.20–2.30	•	21	—	4.80–4.90					
8	17	2.30–2.40	•	22	_	4.90–5.10		47	_	10.55–10.90	
81/2	18	2.40-2.50	•							10.00	
9	19	2.50-2.60	•	23	_	5.10-5.25		10	_	10 00 11 20	
<b>9</b> 1/2	20	2.60–2.70	•	24	_	5.25-5.45		48	_	10.90–11.30	
10	21	2.70–2.80	•	25	_	5.45-5.60					
11	22	2.80–2.90	•	20	_	J. <del>4</del> JJ.00		50	_	11.70–11.95	
111/2	23	2.90–3.00		26	_	5.60-5.80					
				27	_	5.80–6.00					
12	24	3.00–3.20		21	_	J.OU-0.UU					

Dimension 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	Number of Stones in Standard Box	Average Weight of Standard Box (Crystal)
SS	PP	Туре	GROSS	Gross	Gram
2.5	6	ENVELOPE	10	1,200	1,325
3	7	ENVELOPE	10	1,200	1,360
3.5	8	ENVELOPE	10	1,100	1,290
4	9	ENVELOPE	10	1,100	1,380
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	1,650
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	800	1,700
8.5	18	ENVELOPE	10	700	
0.5 9	10	ENVELOPE ENVELOPE	10	700	1,650
					1,750
9.5	20	ENVELOPE	10	700	1,800
10	21	ENVELOPE	10	700	1,900
11	22	ENVELOPE	10	650	1,890
11.5	23	ENVELOPE	10	600	2,100
12	24	ENVELOPE	10	600	2,200
13	25	ENVELOPE	10	500	2,150
13.5	26	ENVELOPE	10	500	2,300
14	27	ENVELOPE	10	500	2,400
14.5	28	ENVELOPE	10	500	2,600
15	29	ENVELOPE	10	500	2,700
15.5	30	ENVELOPE	10	450	2,600
16	31	ENVELOPE	10	400	2,460
17	32	ENVELOPE	10	350	2,700
18		ENVELOPE	10	300	2,650
19		ENVELOPE	10	300	2,800
20		ENVELOPE	5	220	2,500
21		ENVELOPE	5	200	2,450
22		ENVELOPE	5	200	2,700
23		ENVELOPE	5	180	2,600
24		ENVELOPE	5	160	2,500
25		ENVELOPE	5	160	2,700
26		ENVELOPE	2	90	1,950
27		ENVELOPE	2	80	1,900
28		ENVELOPE	2	80	2,050
29		ENVELOPE	2	80	2,150
30		ENVELOPE	2	80	2,200
34		ENVELOPE	2	56	2,400
35		ENVELOPE	2	56	2,450
38		ENVELOPE	1	30	2,000
39		ENVELOPE	1	30	2,050
40		ENVELOPE	1	25	1,750
45		BOX	1	12	1,300
47		BOX	1	12	1,600
48		BOX	1	12	1,900
50		BOX	1	10	2,000
00		50			2,000

### MC Chaton MAXIMA | ART. 431 11 111

0.		Destautes	Number	Number	A
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	1,200	1,200
0	3	ENVELOPE	10	1,200	1,215
1	4	ENVELOPE	10	1,200	1,230
2	5	ENVELOPE	10	1,200	1,280

### 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	GLUE	PRODUCER
Hypo cement	ToolsGS	Plus 300 Endfest (UHU Plus Endfest 300)	UHU GmbH
Pronto CA-50 gel	3M	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

### **CARE INSTRUCTIONS**



Machine wash at max. temperature 50  $^{\circ}\text{C}$  (122  $^{\circ}\text{F}\text{)}.$  Delicate cycle. Turn inside out.



Do not bleach.



(W)

Epoxy Universal

Do not iron.



Turn inside out and use a low temperature and a gentle drying cycle.

Professional wash. Delicate cycle. Turn inside out.

Delicate cycle. Turn inside out.

Professional dry clean with petroleum solvent.

**Bison International** 

### Electroplating

### GENERAL RULES AND RECOMMENDATIONS FOR ELECTROLYTIC FINISHES

### MC Chaton MAXIMA with *Dura-Foiling*<sup>™</sup> 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%  $H_2SO_4$ ). The product should be rinsed after the pickling process in water at room temperature for 30 seconds.

 $\ensuremath{\textbf{Warning:}}$  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.

#### WARNING:

- » 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°C/140°F for 30 seconds.
- » Rinsing is then followed by drying the product in a dryer at a temperature of T <  $90^{\circ}C/194^{\circ}F$ .

#### **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  $\mu m$ ), 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 <  $90^{\circ}$ C/194°F.

### **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

On smatters (		Temperature		Acidity/ Alkalinity	Time	Current Density	Rinsing		Drying
Operation/ Plating	Bath Description	°C	°F	рН	Ultrasound Yes / No	A/dm2	1 <sup>st</sup> Stage T= 20° C 68° F	2 <sup>nd</sup> 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<5mi	n	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% $H_2SO_4$	< 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*<sup>™</sup> 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  $0.1 0.3 \,\text{mm}$ .
- » 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





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