

Fine Jewelry Stones

Handling Advice

Cubic Zirconia

MATERIAL/COLOR	Potassium hydroxide 10%*	Sulphuric acid 96% 80°C*	Citric acid*	Lost-wax casting*	Vitrex pickle*	Sulphuric acid pickle*	Blackening*	Gold coloring*	Soft Soldering*	Silver Coating*	Gold plating*	Rhodium Coating	Machine grinding and polishing	Hard soldering*	Manual grinding and polishing	Hand-mounting	Bonding
CUBIC ZIRCONIA																	
White	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Black	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Peridot	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Olive	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Gold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Champagne	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Brown	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rhodolite	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pink	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Orange	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Amethyst	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Purple	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Lavender	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Deep Pink	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Strawberry Sorbet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rose	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Powder Pink	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pale Rose	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Azure Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Baby Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Powder Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Aurora Borealis	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TREATED SURFACE																	
Silver Foiling	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Synthetic Spinel | Synthetic Corundum | Genuine Gemstones

MATERIAL/COLOR	Potassium hydroxide 10%*	Sulphuric acid 96% 80°C*	Citric acid*	Lost-wax casting*	Vitrex pickle*	Sulphuric acid pickle*	Blackening*	Gold coloring*	Soft Soldering*	Silver Coating*	Gold plating*	Rhodium Coating	Machine grinding and polishing	Hard soldering*	Manual grinding and polishing	Hand-mounting	Bonding
SYNTHETIC SPINEL																	
Aquamarine	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Medium Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Dark Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SYNTHETIC CORUNDUM																	
Medium Ruby	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Dark Ruby	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
GENUINE GEMSTONES																	
Genuine Black Spinel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Genuine Red Garnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Genuine Marcasite	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

KEY:

- Suitable for use with treatment when standard parameters are met.
- Suitable for use with treatment when standard procedure is strictly adhered to; special attention should be paid to the parameters set by the machines and tools used within the procedure for best results. Lack of care may cause visible changes to the stone.
- Not suitable for use with this treatment.

Preciosa is not responsible for any changes caused by improper handling of the stones.

* TREATMENT DESCRIPTIONS:

- Potassium hydroxide 10% ... KOH.
- Sulphuric acid 96% 80°C ... H₂SO₄.
- Citric acid ... C₆H₈O₇.
- Lost-wax casting ... Casting temperature 1,060 °C | Wax burnout: 2 hours at 700 °C.
- Vitrex pickle ... 12.5 Vol % NaHCO₃ | 10 minutes at 70 °C | Rinsed with H₂O.
- Sulphuric acid pickle ... 20 Vol % H₂SO₄ | 30 minutes at 60 °C | Rinsed with H₂O.
- Blackening ... 1/3 K₂CO₃, 1/3 S, 1/3 H₂O | Stones exposed to filtrate for 3 minutes at 50 °C | Rinsed with H₂O.
- Gold coloring ... Color bath mix of 17.3% NaCl | 23% KNO₃, 22.6% H₂O, 25.6% HCl | Boiled in solution for 3 minutes | Rinsed with H₂O.
- Soft soldering ... Soldering temperature 200 °C.
- Silver coating ... Composition of bath – K[Ag(CN)₂], KCN | Chemical additives generating the brilliancy. Stones exposed to dipping in the bath for 3.5 minutes at the temperature of 26 °C in circular movement of silvered goods.
- Gold plating ... Composition of bath – K[Au(CN)₂], KCN, Cu, Pd. | Stones exposed to dipping in the bath for 30 seconds to 4 minutes at the temperature from 25 °C to 55 °C in circular movement of gilded goods.
- Hard soldering ... Soldering temperature 600 °C.