XTCERA



Non-precious Metal

Self-developed

Strong and Durable

Good Biocompatibility

# X-si nter

## DENTAL CO-CR ALLOY

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice

# X-Sinter CoCr Blank

X-Sinter CoCr Blank, a non-precious metal, is innovated based on many years' research and experience of our technicians and is going to revolutionize the traditional PFM manufacturing process. It requires less time, setting the technician free from casting & investing, and at the same time improves product stability and processing level of factory eventually.



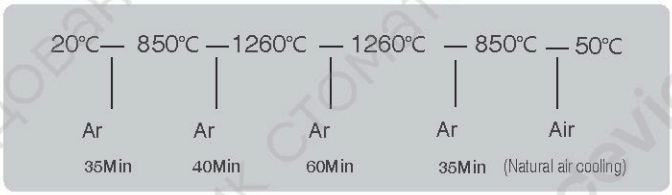

## Advantages:

- 1 Cost-effective, compatible with a variety of CAD/CAM system for manufacturing metal copings
- 2 High strength, solid and excellent toughness, superior wear-resisting property and have a long useful life
- 3 Non-toxic, non-radioactive and biocompatible
- 4 Ultra-high machining precision, ⩽20μm
- 5 Full automatic processing, stable quality, replace the traditional wax casting and reduce working time

## Composition

| | |
|---|---|
| Cobalt | 66.0±2.0% |
| Chrome | 28.0±2.0% |
| Molybdenum | 5.0±1.0% |
| Silicium | <1.0% |
| Manganese | <1.0% |
| Iron | <0.8% |
| Carbon | <0.8% |
| Other | <2.0% |

## XTCERA Co-Cr Alloy Sintering Procedure




Tips: Apply to Co-Cr argon shield sintering furnace.
Ar is inert shielding gas argon, air is clean gas.

## Technical Data

| | |
|---|---|
| Proof strength of 0.2% non-proportional extension | ≥500MPa |
| Elongation after fracture | ≥ 2% |
| E-module | ≥200GPa |
| Density | 7.9±0.2g/cm$^3$ |
| Vickers hardness | 270±27HV10 |
| Corrosion resistance | <200ug/cm$^2$ |
| Solidus temperature | (1350±50)℃ |
| Liquidus temperature | (1410±50)℃ |
| Thermal expansion coefficient (CTE) (25 - 500℃) | (14.5±0.5)x10$^{-6}$K$^{-1}$ |
| Metal-ceramic bond characterization | >25MPa |
| Tensile strength(RM) | ≥800MPa |





XTCERA

CE 0197

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