
Non-precious Metal
Self-developed
Strong and Durable
Good Biocompatibility
DENTAL CO-CR ALLOY

CoCr Blank

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.


X-Sinter Dental Co-cr Alloy

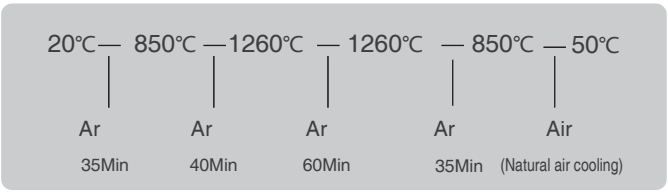
Advantages:

- 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%

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)×10^{-6}K^{-1}
Metal-ceramic bond characterization	＞25MPa
Tensile strength(RM)	≥800MPa