

Premium nitrogen enriched cobalt-chrome alloy system

Wironium® is the strongest, most adjustable cobalt-chrome alloy available. Properties include 330 vickers hardness, 12% elongation and 650 ductile yield strength. Compatible with all casting methods, these properties allow for thinner frameworks, deeper undercuts, and more adjustable clasps — without breakage — the signature of Wironium that set it apart from all other alloys.



Features

A better fit, a better system

- Because our hydrocolloid and silicone duplicating materials reproduce the finest of detail, they guarantee the finest fit. Wironium's unique air cooling technique further reduces any possible distortion. Our easy mixing formulas allow for predictable results just like in C&B departments.
- Wironium is completely compatible with all casting machines—gas or electric burn-out furnaces, hydrocolloid units, electro polishers and drying ovens. All you need for bubble-free models and moulds are a vacuum mixer and pressure vessel.

Cleaner, more accurate castings

- Wironium's phosphate bond refractory materials produce ultra-smooth surfaces. With such fine detail to wax against and no adhesive required, your wax patterns burn-out cleaner than ever.

Outstanding educational support

- Expand your knowledge of RPD's through hands-on training and fundamentals of the superior Wironium system. A three-day course will guide you through surveying, design, creation and wax-up of refractory models, as well as casting and finishing. All course are CDT accredited.



International Wironium Circle

The worldwide association of leading dental laboratories with a common aim: First class dental work using top-quality materials.

SPECIFICATIONS	WIRONIUM	EXTRA HARD	PLUS
Density	8.4 g/cm ³	8.4 g/cm ³	8.4 g/cm ³
Melting Range	1320 -1340 °C 2408 -2444 °F	1330 -1350 °C 2426 -2462 °F	1310 -1345 °C 2390 -2453 °F
Casting Temperature	approx. 1400 °C approx. 2624 °F	approx. 1450 °C approx. 2642 °F	approx. 1400 °C approx. 2624 °F
Ductile Yield (A5)	12%	7.5%	12%
Elongation Limit (Rp 0.2)	650 MPa	670 MPa	700 MPa
Tensile Strength (Rm)	940 MPa	970 MPa	1000 MPa
Modulus of Elasticity	approx. 216 GPa	approx. 220 GPa	approx. 220 GPa
Vickers Hardness (HV10)	330	350	340



Nautilus® CC plus

Fully automatic vacuum-pressure induction casting unit eliminates overheating, alloy waste, and costly remakes.