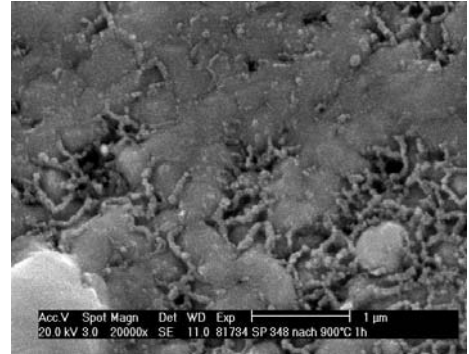
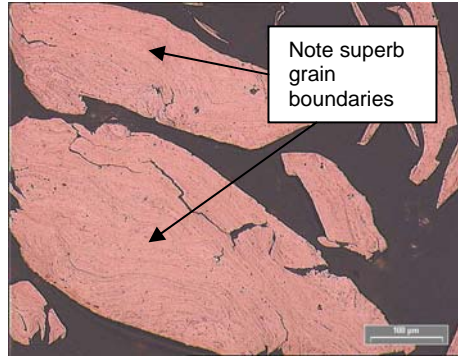


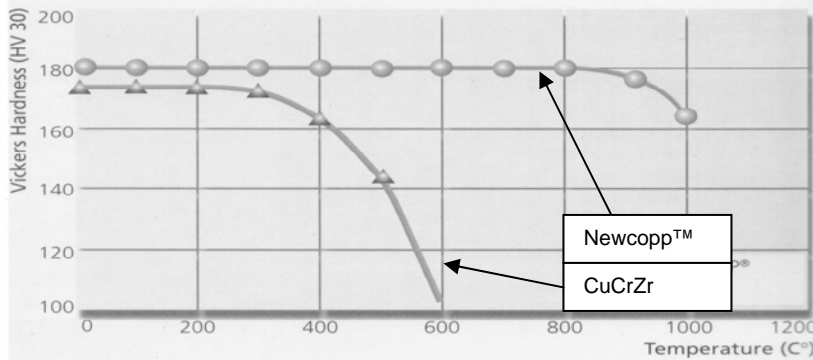


# NEWCOPP™ COPPER ALLOY



Huys' NEWCOPP™ alloy is the first in a family of alloys having a superior combination of electrical conductivity and high temperature strength. Materials having this combination of properties are ideal for resistance welding electrodes. High electrical and thermal conductivity, combined with high strength, endurance and wear resistance at high temperatures, makes NEWCOPP™ the benchmark.

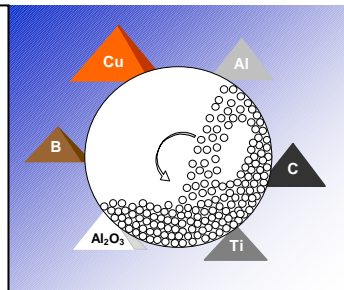
The basis for the manufacturing of these novel materials is to start with forced dissolution of individual alloying elements into powders. The manufacturing process reforms the powders into a new alloy with ingredients in amounts well above what would naturally dissolve under traditional methods. The resulting material has high strength and stability over a wide temperature range.



**Extra Hard:** The graph at left shows hardness lost after **one hour of annealing**. Only 15% of the hardness is lost after one hour at 1,000 degrees C. **Longer life means lower costs with more consistent results and shorter downtime.**

**Extra Conductive:** Newcopp™ is 81% IACS versus only 78% IACS for other traditional copper alloys.

Huys' continuing research has led to the adoption of **reaction milling** to create alloys with superior chemical and mechanical properties. Thus, these **super-saturated** alloys will exceed the performance of currently existing alloys in maintaining hardness under heat and force, and yet maintain thermal and electrical conductivity. This **powder metallurgy** can be cold formed, machined and coated with Huys' patented **titanium carbide coating (TiC)** for increased 'sticking' resistance and longer life.

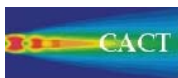


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Centre pour l'Application de Couches

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