

Superconductivity of the Platinum Metals and Their Alloys

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Continuing investigation of superconductivity, particularly of platinum metal compounds, has resulted in a growing understanding of the phenomenon. Accumulating data contain some remarkable experimental results which in time must surely find both theoretical explanation and industrial application.

The electrical and magnetic behaviour of the platinum metals and their compounds has fascinated solid state chemists and physicists for many years. Together with iron, cobalt and nickel the platinum metals belong to Group VIII of the Periodic Table, and one of the earliest problems was to consider why they did not show any magnetic ordering, in contrast to iron, cobalt and nickel. On the other hand, when in the form of solid solutions or compounds they exhibited very interesting magnetic behaviour, for example localised moments and spin glass behaviour. The magnetic strengths of cobalt-platinum alloys even found industrial application.

With the discovery of "superconductivity" by Kamerlingh-Onnes and the hypothesis of B.T. Matthias and others that superconductivity — that is the loss of any electrical resistance below a critical temperature, T_c — and ferromagnetism exclude each other even though they are based on similar phenomena, the investigation of the low temperature electrical and magnetic behaviour of the platinum metals and their compounds became of special interest.

In the course of this research many new and unexpected phenomena were discovered in platinum metal alloys, namely superconductivity of hydrides, and superconductivity/ferro- or antiferromagnetism in ternary compounds,

topics which subsequently developed into specialised research areas of their own. Even now it is impossible to predict the T_c or T_m (T_m = magnetic ordering temperature) of an alloy. Indirectly this work has led to new approaches in other areas, for example the growth and study of single crystals.

Up to now superconductivity has found only limited application in high technology areas for example in magnets for nuclear and fusion research at CERN and Culham and for electrical motors and generators. However, one can expect that the platinum metal compounds discussed here, with their unique properties, will in time find applications which cannot be envisaged at present, perhaps especially for solid state devices.

It has been known for some time that three of the six platinum group metals in high purity form become superconducting, these being ruthen-

ium, osmium and iridium. In addition, many years ago, it was predicted from investigations made of rhodium alloy systems that the element rhodium might also become a superconductor at a temperature around 0.2 mK¹, and this has recently been established²⁻⁵. The superconductivity of the individual metals will now be considered.

Ruthenium

The superconducting transition temperature of ruthenium has been placed between 0.40 and 0.509 ± 0.002 K⁶⁻⁸. The generally accepted values for its superconducting properties are: transition temperature T_c = 0.49 ± 0.015 K, critical field H_c = 69 ± 2 Oe, Debye temperature Θ_D = 580 K, and the coefficient of low temperature specific heat γ = 2.8 mJ/mol/K⁹. The dependence of critical temperature on its atomic mass M (isotope effect) is relatively small. For powdered and arc furnace melted samples of Ru⁹⁹ and Ru¹⁰⁴ it was reported that the critical temperature coincides within the accuracy of measurements⁸ and similar results were obtained later^{9,10}. Measurements made on samples with an average atomic mass M of 99.2, 101.1 and 103.9 in magnetic fields up to 70 Oe gave the dependence: $T_c \approx M^{-1/4}$. At

Table I
Superconducting Transition Temperatures (T_c) of Some RE₂T₂Ge₁₀ Compounds
(RE is Yttrium or Lanthanum;
T is Ruthenium or Osmium)

Compound	$T_c \pm 0.1$ K
Y ₂ Ru ₂ Ge ₁₀	1.7 — 1.8
Y ₂ Os ₂ Ge ₁₀	3.9 — 3.7
La ₂ Ru ₂ Ge ₁₀	2.3 — 2.2
La ₂ Os ₂ Ge ₁₀	3.6 — 3.1

Superconductivity Of Metals And Alloys

Puja Mehta

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