



RCA  
ELECTRON TUBE...

A CHEMICAL SYSTEM!

In electron tube manufacture, precise control of the chemistry of the tube's heart—the cathode—can greatly increase the life of the tube and enhance its performance.

This fundamental consideration has led RCA tube research scientists to develop a unique process for cathode-base material manufacture—and ultimately, to produce **the remarkable N-132 cathode-base material.**

N-132 is a "true balance" of essential chemical elements—nickel, carbon, magnesium, manganese and silicon. High-vacuum melting of the purest metal eliminates oxidation and reduces to lowest levels contaminants such as copper and sulphur. Precise control of process timing—to the second—yields exceptional uniformity from one melt to another, making it possible to hold cathode characteristics within strict limits. In addition, the process eliminates the use of solid deoxidizing agents usually employed in producing air-melted nickel. This feature eliminates unwanted residues and enhances purity of the alloy.

RCA tubes utilizing N-132 cathode material can add a greater element of reliability to your circuits. Get the complete story from your RCA Field Office.



**RADIO CORPORATION OF AMERICA**  
**ELECTRON TUBE DIVISION**

**HARRISON, N. J.**

**EAST:** 744 Broad Street, Newark 2, New Jersey,  
Humboldt 5-3900

**MIDWEST:** Suite 1154, Merchandise Mart Plaza,  
Chicago 54, Ill., Whitehall 4-2900

**WEST:** 6355 East Washington Boulevard, Los  
Angeles 22, Calif., RAYmond 3-8361