

# MAKING TUBES IS EASY..

## If YOU KNOW HOW!



**A** jawbreaker from the Greek, cataphoresis means simply "the movement of suspended particles through a fluid under the action of an applied electromotive force." At Hytron, filaments are not *sprayed* with electron-emissive coating, because that way precise control cannot be achieved. Rather, coating is electrically deposited by the cataphoretic movement of the carbonate molecules.

Drawn through a special coating solution, the filament wire itself serves as the anode; and a metallic plate, as the cathode. The solution consists of a triple precipitate of barium, calcium, and strontium carbonates plus a binder—all suspended in a special organic medium. A precisely adjusted electromotive

force uniformly deposits and bonds the electrically-charged salts onto the filament wire. Baking problems are simplified; coated wire is spooled directly on a cylinder, ready for use.

This new Hytron method of filament coating is so simple, so precise as to texture, weight, and adhesion. One wonders why it is not universal. The answer is simple. Cataphoresis coating is easy *only* if you possess the trade secret of the Hytron coating formula. Also, the applied voltage, timing, and resultant control of texture and emissive qualities in mass production represent months of persistent research. You profit by superior performance from all Hytron coated-filament tubes.

SPECIALISTS IN RADIO RECEIVING TUBES SINCE 1921

# HYTRON

RADIO AND ELECTRONICS CORP.

MAIN OFFICE: SALEM, MASSACHUSETTS

