

## RADIO CORPORATION OF AMERICA

RCA VICTOR DIVISION HARRISON, N. J.

DATEApr. 19, 1950 PAGE 1

STANDARDIZING NOTICE

34-17-15D

Process Specification 

SUPERSEDED DATE

9/9/49

(Development Shop)

SCHEDULE NO. 5 (P4-05 SCREENS) (Initially for Types C73164 and C73177 at a density of 8 mg./sq.cm.)

1. MATERIALS

Z617 Zinc Sulfide Suspension (Z614 Phosphor).

Z12 Zinc Beryllium Orthosilicate Suspension (Z5A Phosphor). C629 Calcium Magnesium Silicate Suspension (C628 Phosphor).

\*P69B Potassium Sulfate Solution, 1N

\*P29C Potassium Silicate Solution, 10%.

\*W7K Distilled Water.

## PROCEDURE

a. Add cushion layer to bulb.

lN potassium sulfate solution

460 cc. Distilled water.

b. Add first layer, single component settling suspension.

Zinc sulfide suspension at 41.2 mg./cc.

150 cc. 10% potassium silicate solution.

350 cc. Distilled water.

Settle for 3 hr. minimum, pour off clear solution (pouring time 10 min.), air dry 5 min. with room temperature air, and bake 15 min. at 350°C.

- c. Add cushion layer as in Step a.
- d. Add second layer, double component settling suspension.

51.2 cc. Zinc beryllium orthosilicate suspension at 20 mg./cc.

35.5 cc. Calcium magnesium silicate suspension at 10 mg./cc.

150 cc. 10% potassium silicate solution

350 cc. Distilled water.

Settle, pour off, etc., as in Step b.

Note: Cushion layers and settling suspensions shall be 1-2°C. below room temperature when added to bulb.

> ENGINEERING SECTION STANDARDIZING