



SUBJECT APPLICATION OF FLUORESCENT COATING
Process Specifications

SUPERSEDED DATE 11/12/46

The process of applying fluorescent screen material to the glass face of the shell of tube type 913 by centrifuging is herein described.

Containers and shells used in this process must be kept free from contamination. No dust or foreign matter should be allowed to collect inside the shell or inside any of the containers used. All containers should be washed thoroughly and rinsed several times with distilled water before being used.

1. EQUIPMENT

a. Centrifuge - International Equipment Company Size 2 Centrifuge.

- (1) No. 250A 16-place head.
- (2) 16 Trunnion cups #362.
- (3) 16 aluminum (preferable) or bronze inserts to fit inside the trunnion cups. These inserts are cylinders 2.5" long with an inside diameter of 1.265" and an outside diameter at the top of 1.570" and at the bottom 1.44".
- (4) 16 circular rubber pads 1/16" thick with a diameter of 1.260".

b. Drying Unit.

- (1) Two reflector infra-red lamps 115V, 250W.
- (2) Two stainless steel, copper, etc. tubulations approximately 7" long and 3/8" in diameter. One end of tube is capped and four holes are placed at intervals of 90° around the circumference just below the capped top.
- (3) Filtered low-pressure air with rotameter gauge.
- (4) Jig for holding 913 shells while being dried.
- (5) Hose and rubber tubing (5/16" diam.).
- (6) Crucible tongs.

c. Miscellaneous Equipment.

- (1) Graduated cylinders (15cc, 100cc).
- (2) Beakers (glass)
- (3) Pipettes (20, 25ml. volumetric).
- (4) Paper towels or filter paper.
- (5) Stainless steel mesh #230.

2. MATERIALS

→ *W18 Willemite Suspension (see S.N. 34C-W-18 for manufacturing specifications).

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