



SUBJECT:

SETTLING MAGNESIUM TUNGSTATE
FLUORESCENT SCREENS
Process Specification

SCHEDULE NO. 1

(Initially for Tube Type C73376B)

MAY 1955

1. EQUIPMENT As specified in 34-17-14.
2. MATERIALS
- M252A Magnesium Tungstate Suspension (30 mg./cc.)
 - P69B 1N (1/2M) Potassium Sulfate Solution, Purified.
 - * P264D 16% Potassium Silicate Solution, Purified
 - W7K Distilled, W7J Distilled, or W6C Deionized Water
 - H7 Hydrofluoric Acid.



HYDROFLUORIC ACID SAFETY PRECAUTIONS: See 33-2-7A

3. PROCEDURE

- a. Rinse bulbs with distilled or deionized water and place in bulb holder.
- b. Place bulb holder on settling table.
- c. Measure the following materials into a 3-liter Florence flask:

M252A	Magnesium Tungstate suspension (30 mg./cc.)	89cc
P69B	1N. Potassium Sulfate Solution, purified	465cc
* P264D	16% Potassium Silicate Solution, purified	* 54cc
W7	Distilled or deionized water	* 1792cc
	Total settling suspension for 16 screens	2400cc
- d. Shake flask vigorously and pour 150 cc. of above settling suspension into a graduate
- e. Add contents of graduate to bulb through an open-end funnel equipped with 325-mesh stainless steel strainer insert.
- f. Allow screen to settle at least 2 hours, but not more than 3 hours, (Excessive settling time causes silicate ring formation on bulb wall.)
- g. Pour off clear solution - pouring time 6-8 minutes.
- h. Air dry 3-4 minutes.
- i. Wash neck and face with 0.5-1.0% hydrofluoric acid.
- j. Alternate bulb cleaning process - see 34-17-4P.

End of Schedule #1

SCALE—

DIMENSIONS IN

UNLESS OTHERWISE SHOWN. DIMENSIONS SHOWN WITHOUT TOLERANCES ARE DESIGN CENTERS

29-552-2-64 PCL266696-126JD

* CHANGE
** ADDITION
*** DELETION

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