

**DETERMINATION OF COMBUSTIBLE ORGANIC
PIGMENTS (CARBON BLACK) IN PRESENCE OF
INORGANIC PIGMENTS (ASH)****Application**

The procedure describes the approved filtration method of essentially water borne electrocoating material for the determination of the combined weight of organic and inorganic pigments (Part 1), the determination of ash (Part 2) and the determination, in electrodeposited uncured paint films, of organic and inorganic pigments (Part 3).

Apparatus Required**Vacuum**

Variable from 760 mm Hg to 20 mm Hg.

Oven

210 F Low Conversion (Cenco Central Scientific Co.) Catalog No. 95105 A.

Laboratory Balance

Analytical +/- 0.1 mg (or equivalent).

Desiccator

Calcium chloride, Will Scientific, Catalog No. D-10821 or equivalent.

Pipettes

Volumetric 1 mL, 2 mL, 3 mL, 4 mL, 5 mL, 10 mL, 25 mL, Will Scientific Catalog No. J-21751 or equivalent.

Filtering Flask

1,000 mL, Millipore Corp. Catalog No. XX1004705 or equivalent.

Pyrex Filter Holder

Millipore Corp. Catalog No. XXX100470 or equivalent.

Filter Funnel

300 mL, Millipore Corp. Catalog No. XX1004704.

Vacuum Hose

4 ft. gum rubber 5/8" O.D., 1/4" I.D., Millipore Corp. Catalog No. XX7100004.

Date	Action	Revisions
2001 03 13	Revised	Editorial – no technical change A. Cockman
1992 06 29		

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Spring Action Clamp

Millipore Corp. Catalog No. XX1004703.

Watch Glasses

90 mm, Will Scientific Catalog No. D-28146 or equivalent.

Tweezers

3 1/2" length, blunt edge, Will Scientific Catalog No. 11301 or equivalent.

Filter Discs

UR 1.5 micron, UH 0.5 micron, UG 0.25 micron Tan; solvent resistant, Millipore Corp.

Policeman

Wide tipped, Will Scientific Catalog No. 23371 or equivalent.

Crucibles, Porcelain

30 mL or 40 mL, Will Scientific Catalog No. M-10106 or equivalent.

Furnace Muffle

Will Scientific Catalog No. 14691 or equivalent.

Bunsen Burner

Will Scientific Catalog No. 7206 or equivalent.

Triangle

Will Scientific Catalog No. 27521 or equivalent.

Combustion Capsule

1 3/4" diameter, Will Scientific Catalog No. 10226 or equivalent.

Magnetic Stirrer

Will Scientific Catalog No. L-25216 or equivalent.

Beakers

100 mL, 1,500 mL, Pyrex, Will Scientific Catalog No. D-4191 or equivalent.

Glass Funnel

75 mm diameter, Will Scientific Catalog No. D-14158 or equivalent.

Volumetric Flask

250 mL, Will Scientific Catalog No. J-13951 or equivalent.

Aluminum Dishes

50 mL, Will Scientific Catalog No. 11146 or equivalent.