

BLAINE FINENESS DEVICE



The **C2301** Blaine Fineness Device determines fineness of Portland cement in terms of specific surface expressed as total area in square centimeters per gram of cement. The device consists of a calibrated U-tube manometer, ground glass joint, stainless steel test cell and plunger, rubber aspirator bulb and perforated disc. Includes 8 oz. bottle of red manometer fluid, filter paper, wood block for holding test cell during filling and funnel.

MODELS	DESCRIPTION	STANDARDS
C2301	BLAINE FINENESS DEVICE	ASTM C-204 / AASHTO T-153

ACCESSORIES	DESCRIPTION
C2302	CELL AND PLUNGER
C2304	EXTRA FILTERS, 500/PK
C2305	STANDARD SAMPLE, 20 VIALS
C2309	EXTRA MANOMETER TUBE

WAGNER TURBIDIMETER

For determining the fineness of Portland Cement by the turbidimeter. The turbidimeter is an apparatus used for measuring the light that passes through a suspension of pulverized material dispersed in a suitable medium. A Microammeter measures current generated in the cell; indicated reading is measure of turbidity of the suspension. Includes photoelectric cell and light source in metal cabinet, timing burette and stand, wet sieving assembly including gauge and spray nozzle, microammeter, 3 calibrated flasks, 4 test tubes, stirring device and instruction book. Available in 110V/50-60 Hz (**C2401**) or 220V/50Hz (**C2402**). Please specify type needed.



MODELS	DESCRIPTION	STANDARDS
C2401	WAGNER TURBIDIMETER, 110V / 60 Hz	ASTM C-115 / AASHTO T-98
C2402	WAGNER TURBIDIMETER, 220V / 50 Hz	

FLOW TABLES

These flow tables have many different applications which include compression strength and air content tests of cement mortar; flow tests of hydraulic cement mortars; consistency test of magnesium oxychloride cements; flexural strength test for bond strength of mortar to masonry units. The flow table is available in manual (**C2601**), motorized (**C2611** & **C2612**), and motorized with counter (**C2615** & **C2616**). All models have a table top which is cast bronze and 10" in diameter. The tables have a cam and shaft set for a 1/2" drop. Manual type has a hand wheel while the motorized types are available in 110V/60Hz or 220V/50Hz (please specify model needed) has a speed of about 100 rpm. The motorized flow tables with automatic counter stops the motor after a preset number of drops. The table is furnished with a cast bronze flow mold, but does not include the flow caliper.



C2601

C2615

MODELS	DESCRIPTION	STANDARDS
C2601	FLOW TABLE, MANUAL	ASTM C-87, C-109, C-110, C-185, C-230, C-243, C-348, C-598 / AASHTO T-71, T-106, T-137, M-152
C2611	FLOW TABLE, 110V / 60 Hz	
C2612	FLOW TABLE, 220V / 50 Hz	
C2615	FLOW TABLE W/ COUNTER, 110V / 60 Hz	
C2616	FLOW TABLE W/ COUNTER, 220V / 50 Hz	

ACCESSORIES	DESCRIPTION
C2618	EXTRA CONE MOLD
C2621	CALIPER FOR PERCENT FLOW

CEMENT CALORIMETER



The **C2751** and **C2752** Cement Calorimeters are used for determining the heat of hydration of hydraulic cement. This is achieved by measuring the difference between the heat of solution of dry cement and the heat of solution of a separate sample partially hydrated for 7 to 28 days. A constant stirrer maintains a uniform temperature throughout the liquid. The Calorimeter consists of a vacuum jar, insulated container, thermometer and electric stirrer. Calorimeter is available in both 110V/60Hz (**C2751**) and 220V/50Hz (**C2752**) (please specify type needed).

MODELS	DESCRIPTION	STANDARDS
C2751	CEMENT CALORIMETER, 110V / 60 Hz	ASTM C-186
C2752	CEMENT CALORIMETER, 220V / 50 Hz	

HUMIDITY CABINET

The **C2931** Humidity Cabinet is used for storing cement mortar specimens at uniformly controlled temperatures and high relative humidity. The interior is stainless steel and the exterior is enameled with an inner inspection glass door. The humidity cabinet is insulated by 3" thick glass wool. The temperature range is from room temperature to 70° C. The humidity range is from 95% to saturation. The I.D. is 24" x 17" x 16" and the O.D. is 35" x 27" x 35".



MODELS	DESCRIPTION	STANDARDS
C2931	HUMIDITY CABINET, 110V / 60 Hz	ASTM C-87, C-109, C-190, C-191

TUBE SAMPLERS

The **C3121** and **C3125** are used for sampling hydraulic cement. The **C3121** is the bulk sampler which has two slotted telescoping polished brass tubes with registered slots (with partitions) that open or close by rotation of the inner tube, the outside one having a sharp penetration point. The sampler is 1-3/8" dia x 63" long. The **C3125** package sampler is a brass tube with diagonal end, air hole and a hardwood handle. The unit is 1-1/4" dia x 28-3/4" long.



MODELS	DESCRIPTION	STANDARDS
C3121	BULK TUBE SAMPLER	ASTM C-183 / AASHTO T-127
C3125	PACKAGED TUBE SAMPLER	