

GOOCH BITUMEN CRUCIBLE

The Gooch crucible is used to determine the solubility of bituminous materials such as road tars and petroleum asphalts containing little or no mineral matter. The crucible retains the asphalt material that is left after filtering with organic solvent. Constructed from porcelain with perforated bottom. Dimensions are 44mm top x 36mm bottom x 25mm deep.



MODELS	DESCRIPTION	STANDARDS
B1021	GOOCH BITUMEN CRUCIBLE	ASTM D-4, D-165 / AASHTO T-44

CENTRIFUGE ASPHALT EXTRACTORS

These extractors are used for the quantitative determination of bitumen content and gradation of aggregates in bituminous paving materials. The bitumen is extracted by use of centrifugal force created by the extractor. The extractor is enclosed within an aluminum housing with removable bowl, cover and nut. Brake system that operates by a shoe contacting the bowl. Speed settings from 0-3600 RPM's controlled by dial. Furnished with 25 filter rings. The extractor is available in 110V/60Hz or 220V/50Hz motors and in explosion proof.



B2901



B3001

MODELS	DESCRIPTION	STANDARDS
B2901	500 GRAM, MANUAL	ASTM D-2172 AASHTO T-164
B2923	1500 GRAM, MANUAL	
B2991	1500 GRAM, 110V/60Hz, EXPLOSION PROOF	
B2992	1500 GRAM, 220V/50Hz, EXPLOSION PROOF	
B3001	3000 GRAM, 110V/60Hz, EXPLOSION PROOF	
B3002	3000 GRAM, 220V/50Hz, EXPLOSION PROOF	
B3011	1500 GRAM, 110V/60Hz	
B3012	1500 GRAM, 220V/50Hz	
B3015	3000 GRAM, 110V/60Hz	
B3016	3000 GRAM, 220V/50Hz	

ACCESSORIES	FILTER RINGS	BOWL, STEM, NUT	COVER
B2901	B2902	B2906	B2907
B2923	B2993	B2924	B2926
B2991 / B2992	B2993	B2996	B2997
B3001 / B3002	B3003	B3006	B3007
B3011 / B3012	B2993	B2996	B2997
B3015 / B3016	B3003	B3006	B3007

CENTRIFUGE ASPHALT EXTRACTORS

This centrifuge is designed to obtain fast filterless separation of filler from asphalt, cement, or concrete, or to separate sediment such as soil or clay that is held in suspension within these mixtures. Since this centrifuge is filterless, the highest accuracy is obtained because there is no dispersion of materials within the centrifuge. The solution is poured into the top funnel and falls into the spinning container. The centrifugal action then causes the liquid to rise to the top and is siphoned off leaving behind the solid.

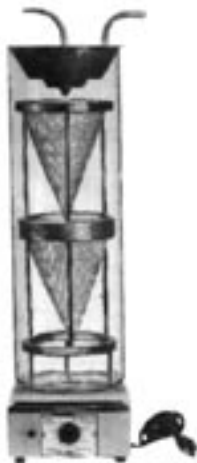
**B3051**

MODELS	DESCRIPTION	STANDARDS
B3051	CENTRIFUGE EXTRACTOR, 110V / 60 Hz	ASTM D-2172 / AASHTO T-164
B3052	CENTRIFUGE EXTRACTOR, 220V / 50 Hz	
B3060	CENTRIFUGE EXTRACTOR, FILTERLESS, 110V / 60 Hz	

ACCESSORIES	DESCRIPTION
B3053	DRIVE BELT
B3054	MAIN SWITCH
B3055	BEARINGS SET
B3056	RUBBER SEAL
B3057	SPARE INSERT CUP, ALUMINUM ALLOY
B3075	FILTERS, 11 CM GLASS FIBER (100 PACK)
B3062	EXTRA BEAKER FOR B3060

REFLUX EXTRACTOR SETS

The reflux extractor sets determine the percentage of bitumen in a paving mixture by hot solvent extraction. They are available in 1000 and 2000 gram models. They are also available in 110V/60Hz and 220V/50Hz versions (please specify type needed). The **B3155S** and **B3161S** sets both have 2000 gram capacity, except that the **B3161S** is designed to meet the State of Virginia specifications.



MODELS	DESCRIPTION	CAPACITY	STANDARDS
B3151S	REFLUX EXTRACTOR, 110V / 60 Hz	1000 G	ASTM D-2172 AASHTO T-164
B3152S	REFLUX EXTRACTOR, 220V / 50 Hz		
B3155S	REFLUX EXTRACTOR, 110V / 60 Hz	2000 G	
B3156S	REFLUX EXTRACTOR, 220V / 50 Hz		
B3161S	REFLUX EXTRACTOR, VA MODEL, 110V / 60 Hz		

ACCESSORIES	B3151S / B3152S	B3155S / B3156S
COPPER CONDENSER	B3154	B3164
GLASS JAR	B3154J	B3166
FLEX BOARD	N/A	B3167
REFLUX BASKET	B3153	B3163
HOT PLATE	G6611	G6613
FILTER PAPER	B3152	B3156

VACUUM EXTRACTORS

These Vacuum Extractors are used along with a vacuum pump to obtain a quantitative measurement of bitumen in hot-mixed paving mixtures and pavement samples. Both extractors are available in aluminum or stainless steel construction and consists of a detachable 12" filter funnel ring with 3000 gram capacity. The **B3241** and **B3242** included a fluid reservoir with 2 sight glasses, a drain valve, vacuum gauge, side handles and filter support. One pack of filter paper is also included. The vacuum pump is not included, however, we recommend model **G8251**. The Free Standing Vacuum Extractors **B3246** & **B3247** are used along with a vacuum pump to obtain a quantitative measurement of bitumen in hot-mixed paving mixtures and pavement samples. Both extractors are available in aluminum or stainless steel construction and consists of a detachable 12" filter funnel ring with 3000 gram capacity. The units are furnished with 10' of vacuum hose and with filter support. The vacuum pump is not included, however, we recommend model.



B3241 & B3242



B3246 & B3247

MODELS	DESCRIPTION	STANDARDS
B3241	VACUUM EXTRACTOR, 3000 G, ALUMINUM	ASTM D-2172 / AASHTO T-164
B3242	VACUUM EXTRACTOR, 3000 G, STAINLESS	
B3246	VACUUM EXTRACTOR, 3000 G, FREE STANDING, ALUMINUM	
B3247	VACUUM EXTRACTOR, 3000 G, FREE STANDING, STAINLESS	

ACCESSORIES	DESCRIPTION
B3152	FILTER PAPER, 33 CM, GRADE 615, 100 / PK
B3152A	FILTER PAPER, 33 CM, GRADE 617, 50 / PK
B3150	FILTER PAPER, 33 CM, GRADE 627
B3243	EXTRA SIGHT GLASS FOR B3241 & B3242
B3244	O'RING FOR B3241 & B3242
B3245	EXTRA FILTER SUPPORT FOR B3242 & B3247
B3248	ADAPTER PLATE FOR 8" SIEVES
B3249	FILTER AID, 2.5 KGS / 5 LBS (CELITE)
B3250	EXTRA FILTER SUPPORT FOR B3241 & B3246
G8251	VACUUM PUMP
L2440	FILTER FLASK, 4000 ML
L2470	STOPPER W/ COPPER TUBES

BINDER IGNITION SYSTEM

Developed by NCAT, the **B3252** & **B3253** Binder Ignition System is designed to replace older solvent-based methods for determining binder content in bituminous concrete and will deliver greater quality control and design of mixes. The system consists of a programmable burn-off furnace with a large main chamber 21" x 21" x 9" and an afterburner chamber. The main chamber is digitally controlled which has a memory for six programs, each with up to 8 ramps and 8 dwells. The afterburner chamber is controlled by a separate analog setpoint controller which maintains the combustion of vaporized binder. The furnace can hold up to 3000 G of sample mix which is placed on special tray with screen support for full direct exposure. The furnace is designed for rapid warm-up and recovery times. The chambers are lined with 2300°F fire brick and the heating elements are Kanthal A-1. The exterior is stainless steel and has a drop door with interlock and lockout switches. The system is furnished with two support screens and lids.



MODELS	DESCRIPTION	TYPE
B3252	BINDER IGNITION SYSTEM, 208-240V / 60 Hz	1 OR 3 PHASE
B3253	BINDER IGNITION SYSTEM, 240-380V / 60 Hz	

ACCESSORIES	DESCRIPTION
B3254	EXTRA SAMPLE TRAY, SCREEN & LID
B3255	FURNACE SUPPORT STAND
B3256	REPLACEMENT FILTER