



Sorbent Tubes



Sorbent Tubes

A sealed glass tube with 2 sections of adsorbent (charcoal, silica etc), the solvent condenses onto the surface of the material during sampling. The ends of the tube are broken before use using a cutter (part number P109025) and resealed using plastic caps after sampling has been completed.

Typical flow rates are between 20-100ml/min. after sampling the tube is sent to a laboratory for desorption either by solvent or thermal methods. The resultant gas or vapour is then injected into an analytical instrument such as a Gas Chromatograph (GC).

A blank tube should always be kept back from the actual sampling but sent to the laboratory to verify that no contamination has occurred before or after sampling.

Always verify what type of sorbent material you require via your local methodology (e.g. NIOSH, MDHS).



Charcoal

The standard NIOSH Charcoal tube is the standard method used generally for organic vapours. Suitable for most general aromatic hydrocarbons and alcohols. Not suitable for aldehydes, nitro compounds or carboxylic acids.

Silica Gel

These tubes are generally used for substances not captured by charcoal. Silica gel is most commonly used for methanol, amines and inorganic acids as well as C2- C5 hydrocarbons and low molecular weight mercaptans (thiols). The desorption material used by the laboratory is either water or methanol.

Some tubes are specifically pre-treated e.g. with sodium hydroxide for sampling specific e.g. ammonia and hydrazoic acid.



Other types

A range of other porous polymer sorbents are available such as Chromosorb, Tenax and XAD for more complex compound sampling.



Sorbent Tubes

Charcoal Tubes

Part No.	Description	Size (mm)	Sections	Sorbent (mg)	Ends	Separators	Unit / Pack Size
P109150	Coconut Charcoal	6X70	2	50/100	GS	FFW	50
P109151	Coconut Charcoal	6x70	2	50/100	GS	FFW	10
P109152	Coconut Charcoal	6x70	2	50/100	GS	FFW	1000
P109153	Coconut Charcoal	6x70	2	50/100	GS	WWW	50
P109154	Coconut Charcoal	6x70	2	50/100	GO	FFW	50
P109155	Coconut Charcoal	8x110	2	200/400	GS	FWW	50
P109156	Coconut Charcoal	8x110	2	200/400	GS	FWW	1000
P109157	Coconut Charcoal	8x110	2	200/400	GO	FWW	50
P109158	Coconut Charcoal	10X110	2	200/800	GS	FWW	50
P109159	Coconut Charcoal	10x110	2	200/800	GO	FWW	50
P109160	Coconut Charcoal	8x110	1/1	200/400	GS	WW/WW	50
P109161	Coconut Charcoal	8x150	3	350/350/350	GS	WW/WW	50
P109162	Coconut Charcoal	10x160	2	200/1800	GS	FFW	50
P109163	Coconut Charcoal (2 tubes)	8x110	1	200/400	GS	FW	50

Silica Tubes

P109212	Silica Gel	6X70	2	75/150	GS	FWW	50
P109164	Silica Gel/Charcoal (Sodium Hydroxide)	10X210	3	250/1250/750	GS	Multiple separators	50
P109165	Silica Gel	8X110	2	260/520	GS	FWW	50
P109166	Silica Gel Sorbent Tube	8x110	2	260/520	GS	WWW	50
P109167	Silica Gel	8x110	2	150/300	GS	WWW	50
P109168	Silica Gel	10x110	2	260/1040	GS	FWW	50
P109169	Silica Gel (Specially cleaned)	6x70	2	75/150	GS	WWW	50
P109170	Silica Gel (Specially cleaned)	8x110	2	260/520	GS	WWW	50
P109171	Silica Gel (Specially cleaned)	7.2x110	2	200/400	GS	WWGW	50
P109172	Silica Gel (Specially cleaned)	10x110	2	200/800	GS	FWW	50
P109173	Silica Gel (2,4-Dinitrophenylhydrazine)	6x110	2	150/300	GS	WWW	20
P109174	Silica Gel (2,4-Dinitrophenylhydrazine)	6x110	2	150/300	GS	WWW	100
P109175	Silica Gel (Sulphuric Acid)	6x70	2	100/200	GO	WWW	50
P109176	Silica Gel (Sulphuric Acid)	6x110	2	100/200	GO	WWW	50
P109177	Silica Gel (Sulphuric Acid)	8x110	2	200/200	GS	WWW	50
P109178	Silica Gel (Sulphuric Acid)	6x70	2	75/150	GS	WWW	50
P109179	Silica Gel	6X70	2	100/50	GS	FWW	50

Chromosorb Tubes

P109180	Chromosorb-102	6x70	2	33/66	GS	WWW	50
P109181	Chromosorb-102	6x70	1	50/100	GS	WW	50
P109182	Chromosorb-102	8x110	2	200/100	GS	WWW	20
P109183	Chromosorb-102	8x110	2	50/100	GS	WWW	50
P109185	Chromosorb-106	6x70	2	75/37	GS	WWW	50
P109186	Chromosorb-106	7.2x70	2	50/100	GS	WWW	50
P109187	Chromosorb-106	10x150	2	300/600	GS	WWW	10
P109188	Chromosorb-108	6x70	2	75/37	GS	WWW	50
P109189	Chromosorb-108- Anasorb 708	10x110	2	400/200	GS	WWW	50

Key:
GS= Glass Sealed
GO= Glass Open

Key:
W=Wool
F=Foam
G=Gauze



Sorbent Tubes

Porapak Tubes

Part No.	Description	Size (mm)	Sections		Sorbent (mg)	Ends	Separators	Unit / Pack Size
P109190	Porapak-N	6x70	2		88/44	GS	WWW	50
P109191	Porapak-P	6x110	2		50/100	GS	WWW	50
P109192	Porapak-Q	6x70	2		78/39	GS	WWW	50
P109193	Porapak-Q	6x110	2		75/150	GS	WWW	50
P109194	Porapak-R	6x70	2		35/70	GS	WWW	50
P109195	Porapak-T (2 tubes)	6x40	1	1	25 75	GO GO	WW	10 sets

Tenax Tubes

P109195	Tenax	6x70	2		20/40	GS	FFW	50
P109196	Tenax	6x70	2		10/20	GS	WWW	50
P109197	Tenax	6x130	1		17 35	GS GS	WW WW	50
P109198	Tenax	8x110	2		50/100	GS	WWW	50
P109199	Tenax	8x110	2		50/100	GS	WWW	10

XAD Tubes

P109200	XAD-2	8X110	2		200/400	GS	WWW	50
P109201	XAD-2	7x70	2		40/80	GS	WWW	50
P109202	XAD-2	8x110	2		30/100	GS	WWW	50
P109203	XAD-2	8X110	2		50/100	GS	WWW	50
P109204	XAD-2	8x110	2		75/150	GS	WWW	50
P109205	XAD-2 (2 Hydroxymethyl Piperidine)	6X110	2		150/75	GS	WWW	20
P109206	XAD-2 (2-Hydroxymethyl Piperidine)	6X110	2		60/120	GS	WWW	20
P109207	XAD-2 (2-Hydroxymethyl Piperidine),	8x110	2		225/450	GS	WWW	20
P109208	XAD-2 (2-Hydroxymethyl Piperidine),	6x70	2		23/45	GS	WWW	20
P109209	XAD-2 (Octanoic Acid)	6x70	2		50/100	GS	WWW	50
P109210	XAD-7	6x70	2		30/60	GS	WWW	50
P109211	XAD-7	6X110	2		100/50	GS	WWW	50