


**PHOSPHINE DETECTOR STRIPS**  
(6 Books)

Batch No. :  
Use Before :



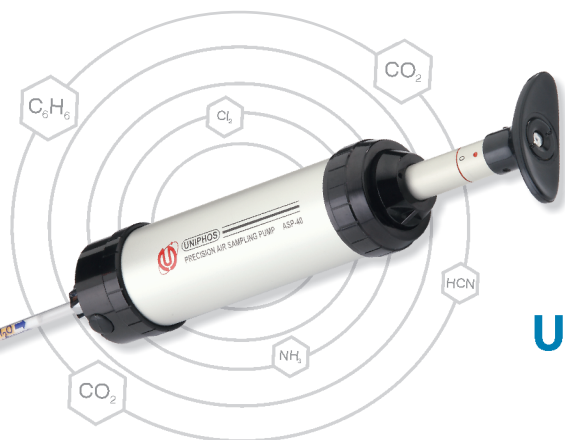
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## UNIPHOS Gas Detector Strips

They are paper strips impregnated with sensing chemicals by a special process to detect the target gases like PH<sub>3</sub>, HCN, H<sub>2</sub>S, etc. The strip on exposure to the target gas changes its colour. The time it takes to change the colour is related to the target gas concentration.

They provide a simple and cost effective method of gas detection at TLV of the specified gases.



## UNIPHOS Charcoal Tubes



The UNIPHOS Charcoal tubes are sealed glass tubes filled with two columns of accurately weighed, high purity coconut shell charcoal. These tubes adsorb non polar solvent vapors and gases passing through them.

The UNIPHOS Charcoal tubes fit into a variety of holders and are used along with specified air sampling pump & flow meter.

The charcoal tubes are used to monitor personal exposure to organic vapors and aerosols. This is a NIOSH approved method for air sampling.

## Dissolved Ion Detector tubes

The UNIPHOS Dissolved Ion Detector tube provides a rapid, fully quantitative analysis of the concentration of sulphide/chloride ions in water.

The tube requires no pump because the inherent capillary action of water through the support material provides the driving force for the sample to rise.

## UNIPHOS Smoke Tubes



The UNIPHOS Smoke tubes are sealed glass tubes filled with a pungent gas producing chemical compound loaded on an inert support material. After cutting both the ends of the tube and passing air by using a specified pump or squeezing a rubber bulb attached at one end of the tube, it produces irritant smoke, coming out of the other end.

UNIPHOS Smoke Generation Tubes can be used for tracking low velocity air movements. These tubes are also useful for respiratory fit testing specified by OSHA, for checking air flow direction in mines, testing the performance of fume hoods, exhaust discharge, dryers, stacks etc.



**UNIPHOS GAS DETECTOR TUBES**  
Stand for Quality, Reliability & Precision



UNIPHOS Gas Detector Tube which is to be used with a sample draw pump provides an easy, quick and accurate method for a direct on the spot measurement of impurity gases and vapors present in air. The tubes are highly specific to the target gas and are disposable.

### UNIPHOS Gas Detector Tubes

- Gas Detector tubes are useful for spot checking of toxic gas concentration at work places
- Available for NH<sub>3</sub>, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, PH<sub>3</sub>, HCl, HCN, CO, CO<sub>2</sub>, O<sub>2</sub>, C<sub>6</sub>H<sub>6</sub>, alcohols, amines, mercaptans and many other gases and vapors

### UNIPHOS Precision Air Sampling Pump

- Piston and Barrel type vacuum pump
- Light weight, rugged and handy
- Pump operation is simple and reproducible
- Requires only periodic routine maintenance
- Pump can draw sample air of 50 cc, 100 cc or their multiples
- Carries a full 5 year warranty

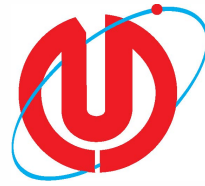
### Application Area

- Confined Spaces
- Fumigation
- Occupational Safety & Health
- Oil & Gas Industry
- Petrochemical Plants
- Process Control
- Research Laboratories



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# UNIPHOS GAS DETECTOR TUBES

Stand for Quality, Reliability & Precision



Sr. no.	GAS / VAPOUR	TLV (TWA)PPM	RANGE (PPM)	Sr. no.	GAS / VAPOUR	TLV (PPM)	RANGE (PPM)	Sr. no.	GAS / VAPOUR	TLV (PPM)	RANGE (PPM)
01	Acetaldehyde	C25	10 - 300	40	Diethyl ether	400	0.04 - 1%	80	Mercury Vapour	0.025 mg/m <sup>3</sup>	0.1 - 2 mg/m <sup>3</sup>
02	Acetic Acid	10	2.5 - 50	41	Diesel	100 mg/m <sup>3</sup>	0.1 - 5 mg/l	81	Methyl Bromide	1	1 - 18
03	Acetone	500	50 - 4000	42	D.M.F.	10	2 - 30				10 - 100
04	Acrolein	C0.1	10 - 800	43	Dimethyl sulphide	10	0.5 - 10				20 - 300
05	Acid Gases	-	2 - 40	44	1,4 Dioxane	20	0.07 - 4 %				50 - 1000
06	Acrylonitrile	2	5 - 120	45	Ethanol	1000	0.05 - 5%	82	Methylene chloride	50	50 - 500
07	Acetylene	-	100 - 5000	46	Ethanolamine	3	4.45 - 89				30 - 1000
08	Amines	-	5 - 100	47	Ethyl Acetate	400	0.1 - 5%	83	Methyl Cyclohexane	400	100 - 1600
09	Ammonia	25	2.5 - 50	48	Ethylamine	5	4.25 - 85	84	Methyl Iodide	2	500 - 15000
			5 - 100	49	Ethyl Benzene	100	5 - 150	85	Methyl Mercaptan	0.5	1 - 20
			10 - 300				30 - 400				5 - 120
			50 - 1000	50	Ethyl Formate	100	20 - 500	86	Morpholine	20	10 - 200
			250 - 5000	51	Ethyl Mercaptan	0.5	1 - 20	87	Nitrogen Dioxide	3	0.5 - 30
			0.5 - 10 %				5 - 120				10 - 1000
			1 - 30 %				25 - 500	88	Nitrogen Oxides	NO <sub>2</sub> : 3 NO : 25	0.5 - 15 20 - 250
10	Aniline	2	2 - 30	52	Ethylene Dibromide	0.5	1 - 50				100 - 2500
11	Arsine	0.005	1 - 30	53	Ethylene Glycol	C:100mg/m <sup>3</sup>	10-100mg/m <sup>3</sup>				1 - 20
12	AviationOil	0.2 mg/l	0.1 - 5 mg/l	54	Ethylene Oxide	1	1 - 100	89	Nitric Acid	2	1 - 20
13	Benzene	0.5	0.25 - 12				0.05 - 3 %	90	Octane	300	3 - 23 mg/l
			2.5 - 50				0.1 - 5	91	Oxygen	-	3 - 24%
			5 - 100	55	Formaldehyde	C0.3	5-100	92	Ozone	0.08	5 - 100
14	Bromine	0.1	1 - 20	56	Formic Acid	5	1 - 15				25 - 500
			5 - 100	57	Furan	-	0.01 - 1%	93	n - Pentane	600	7 - 840
15	Butadiene	2	1 - 20	58	Furfural	2	1 - 16				0.0085-0.2 %
			5 - 100	59	Gasoline	300	0.03 - 0.6%	94	Phenol	5	1 - 25
16	1 - Butanol	20	10 - 150	60	n - Hexane	50	10 - 1200	95	Phosphine	0.3	0.05 - 2.5
17	2 - Butanol	100	10 - 150				0.025 - 0.6%				0.3 - 5
18	Butyl Acetate	150	0.005-1%	61	n - Heptane	400	15 - 1800				0.1 - 10
19	Butyl Acrylate	2	5 - 60				0.05 - 1.41 %				5 - 100
20	n - Butane	800	50 - 1400	62	Hydrazine	0.01	0.1 - 2				50 - 1000
21	n - Butylamine	C5	5 - 100	63	Hydrocarbon (General)	-	10 - 1200				150 - 3000
22	Carbon Dioxide	5000	0.03 - 0.5%				0.025 - 0.6%				300 - 8000
			0.25 - 3%	64	Hydrogen	-	0.05 - 0.8%	96	Phosgene	0.1	0.1 - 10
			0.5 - 10%	65	HydrogenChloride	C2	1 - 10	97	Pyridine	1	1 - 14
			1 - 20%				2 - 20	98	Sulphur Dioxide	2	0.5 - 10
			5 - 60%				5 - 100				1 - 25
23	Carbon Disulphide	1	2.5 - 50				50 - 1000				20 - 300
			5 - 100	66	Hydrogen Cyanide	C4.7	2.5 - 50				5 - 100
			50 - 1600				5 - 100				500 - 8000
24	Carbon Monoxide	25	1 - 30				50 - 1000				0.1 - 3%
			5 - 100	67	Hydrogen Fluoride	0.5	0.5 - 30				0.25 - 5%
			25 - 600	68	Hydrogen Selenide	0.05	5 - 100	99	Sulphuric Acid	3 mg/m <sup>3</sup>	0.5 - 5 mg/m <sup>3</sup>
			50 - 1000	69	Hydrogen Sulphide	10	0.5 - 7	100	Stoddard Solvent	100	50 - 8000 mg/m <sup>3</sup>
			100 - 3000				0.5 - 10	101	Styrene	20	25 - 250
			0.01 - 0.7%				1 - 30	102	t - Butyl amine	-	3.9 - 78
			0.1 - 7%				2.5 - 60	103	t- butyl Mercaptan	0.5	0.5 - 15 mg/m <sup>3</sup>
			1 - 20 %				5 - 100				0.5 - 30 mg/m <sup>3</sup>
25	Carbon Monoxide in H <sub>2</sub>	25	5 - 100				10 - 250				5 - 120
			100 - 3000				50 - 800	104	Tetrahydrofuran	50	50 - 800
26	Carbon Tetrachloride	5	1 - 60				100 - 2000	105	Tetrachloroethylene	25	5 - 100
27	Carbonyl Sulphide	-	5 - 100				0.1 - 2%	106	Trichloroethylene	10	1 - 16
28	Chlorine	0.5	0.25 - 5				0.5 - 4%				10 - 250
			2.5 - 50				0.2 - 7%				0.05 - 1%
			5 - 100				0.5 - 10%				2.15 - 43
			50 - 500				2 - 40%	107	Triethylamine	1	2.15 - 34
29	Chlorine Dioxide	0.1	0.1 - 5	70	H <sub>2</sub> S + SO <sub>2</sub>	H <sub>2</sub> S:10, SO <sub>2</sub> :2	2.5 - 60 + 0.5 - 10	108	Trimethylamine	5	1.7 - 34
30	Chlorobenzene	10	10 - 200				0.5 - 10	109	Toluene	20	2 - 50
31	Chloropicrin	0.1	0.1 - 16	71	IsopropylAlcohol	400	0.1 - 2.5%	110	UDMH	0.01	0.1 - 2
32	o - Cresol	5	1 - 25	72	IsopropylAmine	5	2.5 - 50	111	Vinyl Chloride	1	1 - 20 ppm
33	Cyclohexane	100	10 - 1200	73	Isopropyl Ether	250	0.013 - 0.34%				0.05 - 1%
			0.025 - 0.6%	74	LP Gas	1000	100 - 50000	112	Water Vapour	-	2 - 10 lb/MMCF
34	Cyclohexanone	20	2 - 100	75	MaleicAnhydride	0.1	1 - 20				6 - 40 lb/MMCF
35	Cyclohexylamine	10	0.5 - 30	76	Methanol	200	100 - 5000				0.1 - 2 mg / l
36	1,2 Dichlorobenzene	25	10 - 300				0.05 - 6%				1 - 18 mg / l
37	1,2 Dichloroethane	10	5 - 50	77	Methylamine	5	5 - 100				1 - 30 mg/l
38	1,2 Dichloroethylene	200	20 - 400	78	M.E.K.	200	0.02 - 0.6%	113	Xylene	100	25 - 1000
39	DiethylAmine	5	2 - 20	79	M.I.B.K	50	0.02 - 0.6%	114	Inorganic gases tube	(Multigas tube)	



### UNIPHOS CHARCOAL TUBES

Type	Size (mm) OD x Length	Sorbent weight A/B (mg)
Standard	6 x 70	50 / 100
Large	8 x 110	200 / 400
Jumbo	10 x 110	200 / 800
Open end - Standard	6 x 70	50 / 100
Open end - Large	8 x 110	200 / 400
Open end - Jumbo	10 x 110	200 / 800

### UNIPHOS DISSOLVED ION DETECTOR TUBES

GAS	RANGE(ppm)
Sulphide ion	0.5 - 20
Sulphide ion	2 - 300
Sulphide ion	1-100
Chloride ion	5 - 200
Chloride ion	10 - 2000

### UNIPHOS DOSIMETER TUBES

GAS	RANGE(ppm)
Phosphine	(1-200) x 10 <sup>3</sup>
Phosphine	(1-200) x 10 <sup>2</sup>
Ammonia	25 - 500
Carbon dioxide	(5 - 120) x 10 <sup>3</sup>
Oxygen	(1 - 100) x 150

### UNIPHOS TOXIC GAS DETECTOR STRIPS

GAS	RANGE(ppm)
Phosphine	0.3 - 10
Hydrogen sulphide	1 - 20
Hydrogen cyanide	1 - 20
Mercaptan	0.5 - 10
Arsine	0.05 - 3