

## Technical Data Sheet – TDS 15

### VOC Diffusion Tube Sorbents and Applications

Each type of VOC thermal desorption diffusion tube contains a sorbent for the required application. There are many types of sorbent from which the environmental technicians can select, each type is formulated to detect and trap VOC and SVOC of each identified group i.e Aliphatics , Aromatics, Halothanes , Esters, phthalates, alcohols , P.A.H. etc. This data sheet provides information on the types sorbent available and their selected applications. **This list is not exhaustive and the person carrying out the monitoring project must ensure that the most suitable sorbent is specified.** Gradko Environmental Technical Department can assist and advise on the correct selection if required.

DIFCHR-106 DIFCHR-BTX DIFCHR-B	CHROMASORB 106	BENZENE : BTEX VOC : c5 to c12
DIFTXTA	TENAX TA	GENERAL VOC c7 to c28 ( usually used for top 5 or top10 unknown compounds)
DIFTXTQ	TENAX / QUARTZ	SEMI-VOLATILE VOC ( c 20 UPWARDS)
DIFTXGR	TENAX / GRAPHITE	P.C.B.'s ( POLYCHLOROBIPHENOLS)
DIFSIL-TXTQ	TENAX / QUARTZ SILCOSTEEL	PESTICIDES
DIFTXTSLOK	TENAX TA SAFELOK TUBES	FOR USE AT ULTRA LOW PUMP FLOW ( 1-5 ml / min )
DIFUNI	UNICARB	LOW VOLATILITY VOC ( c3 to c8 )
DIFSLS-UNI	UNICARB-SILCOSTEEL	LOW BOILING POINT ORGANOSULPURS
DIF2BS	2BEDSORBENT (TENAX / UNICARB)	AIR TOXICS c3 to c 12 INDUSTRIAL AIR MONITORING ( c 5 to C 20 )
DIFSLS- 2BS	TENAX/UNICARB SILCOSTEEL	ORGANOSULPHURS LANDFILL MONITORING VINYL CHLORIDE MONOMER
DIFCBS111	CARBOSIEVE S111	VOLATILE GASES PROPENE, PROPANE, ETHENE ETHANE, BUTENE ETC.
DIFCBX1000	CARBOXEN 1000	ULTRA VOLATILE HYDROCARBONS

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DIFSIL3BS	3BEDSILCOSTEEL TENAX/CARBOGRAPH 1TD / CARBOXEN1000	GENERAL MS SCREENING OF UNKNOWN VOC IN RANGE c2/3 to c20( inc Sulphurs)
DIF3BS	3BEDSILCOSTEEL TENAX/CARBOGRAPH 1TD / CARBOXEN1000	GENERAL MS SCREENING OF UNKNOWN VOC IN RANGE c2/3 to c20( exc Sulphurs)
DIFCPKX	CARBOPACK X	1,3 – BUTADIENE
DIFCPKB	CARBOPACK B	ALCOHOLS : ALDEHYDES BP>75°C ( NOT FORMALDEHYDE) PERFLUOROCARBONS
DIFTXCG1TD	TENAX / CARBOGRAPH 1TD	METHYL METHACRYLATE ACRYLONITRILE ACRYLATES
DIFCG1TDQ	CARBOGRAPH 1TD / QUARTZ	HIGH BOILING POINT P.A.H. AND VOC
DIFCG1TD	CARBOGRAPH 1TD	NAPHTHALENE AND LOW BOILING POINT P.A.H.
DIFCG2TDQ	CARBOGRAPH 2TD / QUARTZ	HIGHER BOILING POINT P.A.H. (UP TO C24) DESORB TEMP. 350°C +
DIFMLS5A	MOLECULAR SIEVE 5A	NITROUS OXIDE
DIFRAD	RADIELLO	SHORT TERM PASSIVE SAMPLING 30 minutes to 6 hours NO <sub>2</sub> : SO <sub>2</sub> : O <sub>3</sub> : NH <sub>4</sub> : H <sub>2</sub> S: HF ; HCL VOC : BTEX : ALDEHYDES
DIFPORAN	PORAPAK N	VOC CONTAINING NITROGEN PYRIDINE VOLATILE ALCOHOLS

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**Technical information and recommendations given represent our best professional opinion of the most likely solution for a client's project. The information is based on published technical data, and takes into consideration individual clients stated requirements and working conditions. However, no guarantee can be given to the ultimate performance of the Diffusion Tubes in individual clients circumstances.**  
Please consult our Technical Department for further information

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