

Materials List for:

An Inverse Analysis Approach to the Characterization of Chemical Transport in Paints

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Materials

Name	Company	Catalog Number	Comments
Stainless Steel Tray	McMaster Carr	4189T1	13-5/8" L x 9-3/4" W, http://www.mcmaster.com/#stainless-steel-trays/=p8dcgp
MIL-DTL-53039 solvent-dispersible aliphatic polyurethane coating system			Substrates supplied by internal source
Environmental Chamber			Custom Design. Full details on vacuum chamber specifications and materials included in reference 4.
bis(2-chloroethyl) sulfide	CASARM		TOXIC
O-ethyl S-[2-(diisopropylamino)ethyl] methylphosphonothioate	CASARM		TOXIC
Pipetter	Fisher Scientific	22260201	Range of 1.0 µl to 10 ml
Pipetter Tips	Fisher Scientific	13-683-709	0.1 ml Volume
Stainless Steel High Vacuum Experimental Chamber			Custom Design
Quadrupole Mass Spectrometer	ExTorr	RGA300	
Stainless Steel Tweezers	McMaster Carr	5516A15	Any stainless steel tweezers are appropriate.
Glass Extraction Jar	Scientific Specialties	170808	Jar fits a ~5 cm diameter substrate. Different glass jars with teflon lined lids are appropriate for different sized substrates.
Chloroform	Sigma-Aldrich	650498	HARMFUL. The extraction solvent for HD may change depending on the analytical method.
Isopropanol	Sigma-Aldrich	650447	HARMFUL. The extraction solvent for VX may change depending on the analytical method.
Pasteur Pipette	VWR	14673-010	size = 5 3/4"