Disk Drive Filters

ANALYTICAL LABORATORY CAPABILITIES

Product testing specific to your application needs

Gore provides filtration solutions designed for the high-volume, electronics industry. As part of a commitment to quality, Gore offers applications engineering support, rapid prototyping and analytical test capabilities. In addition to standard chemical and particle filtration performance tests, Gore also has custom testing capabilities that can be designed to meet the exact need of your application.

Chemical Vapor and Moisture Adsorption Performance

GC/FID and FPD Adsorption Rig	Profiles active adsorption of carbon and filters; specific for organic compounds, sulfur and phosphorus
Static Adsorption Microbalance	Profiles passive adsorption of carbon and other materials
H_2S Adsorption Apparatus	Profiles active adsorption of carbon and filters; specific for hydrogen sulfide
SO_2 Adsorption Fluorescence Detector	Profiles active adsorption of carbon and filters; specific for sulfur dioxide
Humidity Chamber Testing	Evaluates the moisture time constant, disk drive humidity response, contact and near-contact stain testing
Moisture Isotherm Test Equipment	Measures the moisture isotherms of carbons and other materials
Chemical Vapor Clean-Up	Characterizes the drive-level vapor-contaminant clean up performance for different filter configurations
Adsorption Isotherm Test Equipment	Measures vapor adsorption isotherms on adsorbents for a wide variety of organic and inorganic compounds

Particle Filtration Performance

Particle Clean-Up Testing	Characterizes the drive-level particle-contaminant clean-up performance on discrete parts or in drive; uses polystyrene latex, sodium chloride or aluminum oxide particles
Particle Filtration Efficiency Testing	Tests filter and filter-media efficiency using a TSI tester with dioctyl phthalate (DOP) particles

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Quality Assurance Analytic Testing

Gas Chromatography with Mass Spectrometer	Separates, identifies and quantifies volatile and semi-volatile compounds on a sample; capabilities include dynamic headspace, direct injection and thermal desorption
Ion Chromatography	Separates, identifies and quantifies anions, cations and organic acids on a sample
Fourier Transform Infrared Spectroscopy	Identifies and quantifies nonvolatile organic residues in a component using IR (Infra Red) microscope and ATR (Attenuated Total Reflectance) capabilities within an integrated dual detector system (MCT and DTGS) in each instrument
Laser Liquid Particle Counter	Sizes and counts cumulative and differential particles from 0.2 to 200 microns in liquid samples

Analytical Testing

Scanning Electron Microscope	Identifies and characterizes surface analysis of material
Thermal Analysis: TGA and DSC	Characterizes and identifies thermal analysis for material

Innovation and Reliability from Gore

For more than 20 years, Gore has worked with the world's leading disk drive manufacturers to develop innovative, low-cost filtration solutions. Contact a Gore representative for more information about engineering the best products for your drive application.

INTERNATIONAL CONTACTS

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