

SKC Filter Selection Guide

Understanding the Difference Between Membrane and Depth Filters

Membrane Filters — Membrane filters are made typically of MCE, PVC, copolymers, polycarbonate, silver, gelatin, or PTFE. They are precision cast into sheets, therefore, the pores are consistent and pore size ratings are more precise. During sampling, small particles pass through the pores in membrane filters leaving larger particles on the surface of the filter. A high amount of particles on the surface of a membrane filter can clog the pores causing particles that would normally pass through to be retained on the surface such as what commonly occurs during asbestos sampling.

Depth Filters — Depth filters are constructed usually of fibrous materials such as glass or quartz fibers. The multiple layers of randomly oriented fibers in depth filters cause their pore size to be inconsistent and undefined, therefore, a pore size rating for a depth filter is typically approximate (nominal). Particles collected with depth filters are captured within the pathways of the fibrous material. Depth filters are typically more economical and tolerate higher temperatures.

Material	Abbr.	Common Pore Sizes	Main Properties	Air Sampling Applications
Mixed Cellulose Ester	MCE or MEC	0.45 µm 0.8 µm 1.2 µm 5.0 µm	<ul style="list-style-type: none"> Hydrophilic Readily soluble for atomic absorption analysis Readily rendered transparent for transmitted light microscopy Dissolve and clear easily 	<ul style="list-style-type: none"> Metal dust analysis Asbestos and man-made fibers
Polyvinyl Chloride (Pure Homopolymer) GLA-PVC	PVC or PH-PVC	0.5 µm 0.8 µm 5.0 µm	<ul style="list-style-type: none"> Hydrophobic Non-oxidizing surface Silica-free Low ash Low tare weight for gravimetric analysis 	<ul style="list-style-type: none"> Gravimetric analysis Hexavalent chromium
Polytetrafluoroethylene PTFE	PTFE	0.5 µm 1.0 µm 2.0 µm 5.0 µm	<ul style="list-style-type: none"> Hydrophobic Inert to solvents, acids, and bases Autoclavable 	<ul style="list-style-type: none"> Alkaline dusts Polynuclear aromatics Pesticides Isocyanates
Polycarbonate	PC	0.3 µm 0.4 µm 0.8 µm		<ul style="list-style-type: none"> Scanning electron microscopy

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Filter Selection Guide:

Filters and Filtration Handbook Trevor Sparks, George Chase, 2013-02-08 Filters are used in most industries especially the water sewage oil gas food and beverage and pharmaceutical industries The new edition of Filters and Filtration Handbook is an all encompassing practical account of standard filtration equipment and its applications Completely revised and rewritten it is an essential book for the engineer working in a plant situation who requires guidance and information on what s available and whether it s suitable for the job Co published with the Institution of Chemical Engineers An up to date and comprehensive reference covering essential theory of filters and filtration and including types of filter media filtration equipment techniques and systems Helps you decide the best filtration methods and materials for the task at hand Includes new material on basic principles filter media and the application of filtration within production systems

Filters and Filtration Handbook T. Christopher Dickenson, 1997 Following over 3 000 sales of the third edition the fourth edition of Filters Filtration Handbook is again destined to become the leading reference manual for filtration and separation products The handbook is an essential reference tool for engineers designers technicians plant operators and consultants as well as staff with responsibility for purchasing planning sales and marketing It is directly relevant to numerous industries including water fluid power chemicals pharmaceutical food and beverages processing general engineering electronics and manufacturing

HVAC and Chemical Resistance Handbook for the Engineer and Architect Tom Arimes, 1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria

Filters and Filtration Handbook Kenneth S Sutherland, George Chase, 2011-04-18 Filters are used in most industries especially the water sewage oil gas food and beverage and pharmaceutical industries The new edition of this established title is an all encompassing practical account of standard filtration equipment and its applications Completely revised and rewritten it is an essential book for the engineer working in a plant situation who requires guidance and information on what s available and whether it s suitable for the job Co published with the Institution of Chemical Engineers Co published with the Institution of Chemical Engineers The leading practical engineering guide to filtration techniques systems and their applications Meets the needs of all key sectors where filtration is a critical process including chemical processing and manufacture food oil and gas air conditioning and water A comprehensive sourcebook and reference for plant engineers process engineers plant designers filter media and filtration specialists and equipment specifiers

Electronic Filter Design Handbook, Fourth Edition Arthur Williams, Fred J. Taylor, 2010-08-01 Keep up with major developments in Electronic Filter Design including the latest advances in both analog and digital filters Long established as The Bible of practical electronic filter design McGraw Hill s classic Electronic Filter Design Handbook has now been completely revised and updated for a new generation of design engineers The Fourth Edition

includes the most recent advances in both analog and digital filter design plus a new CD for simplifying the design process ensuring accuracy of design and saving hours of manual computation

Essentials of Oil and Gas Utilities Alireza Bahadori, 2016-02-03 Every oil and gas refinery or petrochemical plant requires sufficient utilities support in order to maintain a successful operation A comprehensive utilities complex must exist to distribute feedstocks discharge waste streams and remains an integrated part of the refinery's infrastructure *Essentials of Oil and Gas Utilities* explains these support systems and provides essential information on their essential requirements and process design This guide includes water treatment plants condensate recovery plants high pressure steam boilers induced draft cooling towers instrumentation plant air compressors and units for a refinery fuel gas and oil systems In addition the book offers recommendations for equipment and flow line protection against temperature fluctuations and the proper preparation and storage of strong and dilute caustic solutions *Essentials of Oil and Gas Utilities* is a go to resource for engineers and refinery personnel who must consider utility system design parameters and associated processes for the successful operations of their plants Discusses gaseous and liquid fuel systems used to provide heat for power generation steam production and process requirements Provides a design guide for compressed air systems used to provide air to the various points of application in sufficient quantity and quality and with adequate pressure for efficient operation of air tools or other pneumatic devices Explains the water systems utilized in plant operations which include water treatment systems or raw water and plant water system cooling water circuits for internal combustion engines reciprocating compressors inter cooling and after cooling facilities and Hot Oil and Tempered Water systems

Analog Filter and Circuit Design Handbook Arthur Williams, 2013-10-29 Cutting edge techniques for designing analog filters and circuits With an emphasis on using operational amplifiers as key building blocks *Analog Filter and Circuit Design Handbook* shows how to create working circuits that perform a variety of analog functions Numerous circuit examples provide mathematical functions on analog signals in both a linear and nonlinear manner The highly efficient elliptic function filter response is featured throughout the book Audio applications such as audio power amplifiers and cross over networks are discussed and both voltage and current feedback amplifiers are covered This practical guide also analyzes the impact of nonideal amplifiers and addresses waveform shaping and generation

ANALOG FILTER AND CIRCUIT DESIGN HANDBOOK COVERS Introduction to modern network theory Selecting the response characteristic Low pass filter design High pass filter design Bandpass filters Band reject filters Networks for the time domain Refinements in LC filter design and the use of resistive networks Component selection for LC and active filters Normalized filter design tables Switched capacitor filters Adjustable fixed delay and amplitude equalizers Voltage feedback operational amplifiers Linear amplifier applications Nonlinear circuits Waveform shaping Waveform generation Current feedback amplifiers Large signal amplifiers

INCLUDES FREE DOWNLOADS Filter Solutions from Nuhertz Technologies ELI 1 0 Elliptic function filter design program Fltrform an Excel spreadsheet with essential formulas

Handbook of Filter

Synthesis Anatol I. Zverev, 2005-06-23 Handbook of Filter Synthesis originally published in 1967 is the classic reference for continuous time filter design The plots of filter behaviour for different designs such as ripple and group delay make this book invaluable The discussion of how to synthesize a bandpass bandpass or bandstop filter from a lowpass prototype is also very useful

Heating, Ventilating, and Air-conditioning Design Guide for Department of Energy Nuclear Facilities, 1993 Learn to design HVAC systems for nuclear facilities that meet DOE criteria This is the only definitive guide that currently exists with respect to HVAC design Information that will satisfy code and regulatory requirements contributions from contractor reps from each of the seven major DOE sites and specific recommendations for points of confusion that have existed for over 20 years

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Industrial Filtration of Liquids Derek B. Purchas, 1971 *The Cinema Handbook* Austin Celestin Lescarboursa, 1921
Lubricating Engineer's Handbook John Rome Battle, 1916 **Regional Industrial Buying Guide**, 2004
Chemical Engineering Progress, 2001 Consulting Engineer, 1972 **Industrial Water Engineering**, 1978 **The Chemical Engineer**, 1978 **Hydraulic System Contamination Bibliography** N. G. Guy, 1988

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