



Cellupore 1900SD Series Product Data Sheet

Applications

- ▶ Food / Beverage - Beer, Distilled Spirits, Juice, Wine
 - ▶ Chemicals - Specialty, Fine
 - ▶ Cosmetics
 - ▶ Dielectric Fluids
 - ▶ Dyes
 - ▶ Edible Oils
 - ▶ Flavors
 - ▶ Fragrances
 - ▶ Gelatin
 - ▶ Inks
- ▶ Photographic Solutions
- ▶ Photoresist Solutions
- ▶ Utility

Gusmer's 1900SD series of gradient density depth filters provide superior throughput capacity, thus reducing filtration costs. This range of controlled porosity media exhibits positive charge properties to enhance filtration performance and provides higher wet strength, low extractables, and increased throughput due to advanced manufacturing technologies.

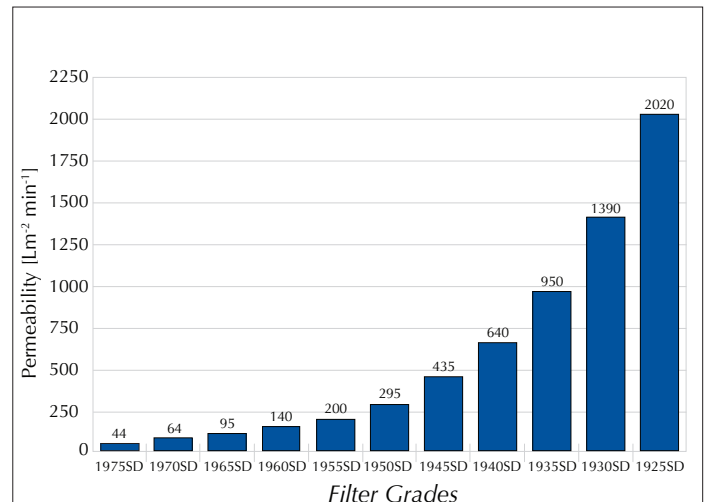
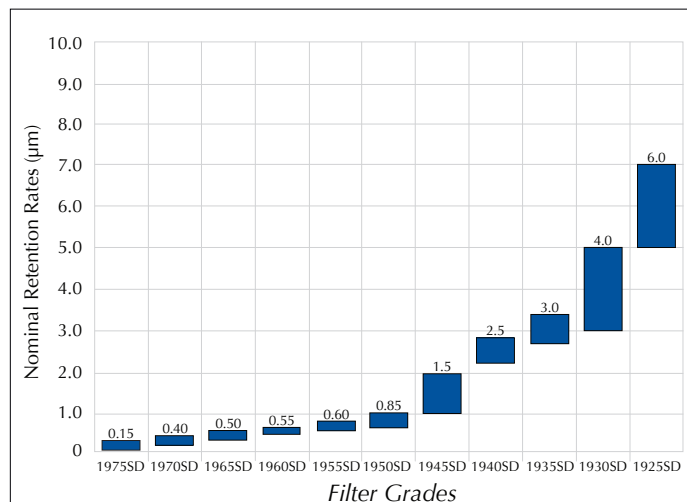
APPLICATION GUIDE

The information in this Application Guide is provided as a recommendation.

Filtration Type	Filter Grades	Possible Applications	Recommended Flow Rates gal/hr/ft ² (liter/hr/m ²)	Maximum Flow Rates gal/hr/ft ² (liter/hr/m ²)	Maximum Differential Pressure (psid)
Coarse Filtration	1925SD	Arrest Fermentation, Bioreduction, Fining Agent Removal, Gross Clarification	16 - 32 (652 - 1304)	30 - 40 (1222 - 1630)	45
	1930SD				
	1935SD				
	1940SD				
Polish / Clarifying Filtration	1945SD	Bioreduction, Fining Agent Removal, Gross Clarification, Polished Degree of Clarity	8 - 24 (326 - 978)	20 - 30 (815 - 1222)	45
	1950SD				
	1955SD				
Sterile / Pre-membrane Filtration	1960SD	Bioreduction, Membrane Protection, Micro-Organism Removal, Polished Degree of Clarity	3 - 12 (122 - 489)	10 - 15 (407 - 611)	21
	1965SD				
	1970SD				
	1975SD				

SHEET RETENTION AND PERMEABILITY RATINGS

Find the appropriate 1900SD filter for your application by choosing the desired level of retention and permeability.





PHYSICAL SHEET PROPERTIES

These tests are carried out according to ASTM methods or in accordance with Gusmer's standard laboratory test methods.

Grade Designation	Thickness (mm)	Mass per unit Area (gsm)	Ash Content (%)
1925SD	3.43	878	46
1930SD	3.43	975	54
1935SD	3.43	1000	54
1940SD	3.43	1060	54
1945SD	3.43	1070	54
1950SD	3.43	1070	54
1955SD	3.43	1080	54
1960SD	3.43	1100	53
1965SD	3.43	1100	53
1970SD	3.43	1885	51
1975SD	3.43	1220	51

Note: Test results are typical.

CERTIFICATIONS

Other documents including Certificate of Compliance, Certificate of Analysis, and Material Safety Data Sheets are available upon request. Supporting documentation is on file at Gusmer Enterprises, Inc.

Important Note: Gusmer Enterprises, Inc. provides this information to the best of our knowledge. This information does not claim to be complete and Gusmer Enterprises, Inc. cannot assume liability for improper use. All users are advised to test products to meet their specific needs.

CHEMICAL DATA

Typical metal extractables for the 1900SD Series are provided.

Metals	µg/g media
Aluminum (Al)	---
Antimony (Sb)	0.03
Arsenic (As)	---
Barium (Ba)	0.16
Boron (B)	0.44
Calcium (Ca)	0.91
Copper (Cu)	0.91
Iron (Fe)	---
Lithium (Li)	0.03
Magnesium (Mg)	10.67
Manganese (Mn)	0.97
Molybdenum (Mo)	0.07
Nickel (Ni)	0.08
Potassium (K)	12.8
Sodium (Na)	13.24
Strontium (Sr)	0.22
Titanium (Ti)	0.06
Tungsten (W)	0.01
Vanadium (V)	0.07
Zinc (Zn)	0.44

Metals: ppb, pure water flush of 5 L/sq. ft. with 24-hr soak

Note: "---" indicates metal was not detected

Note: Bi, Cd, Cr, Co, Ga, Ge, Pb, Hg, Ag, Sn also not detected in any sample

Distributed by:



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