

AMETEK

RESIN-BONDED CELLULOSE MELAMINE CARTRIDGE

Another Innovative Product From Ametek

After more than five years of in-depth fiber research, we have developed an excellent white thick-walled cartridge. The RBCM (Resin-Bonded

Cellulose Melamine)

Cartridge is produced from cellulose fibers, which have been intrinsically bonded together by a melamine resin, to create a solid, highly durable, yet porous structure. By treating the fibers in this fashion, we can assure a stronger cartridge that is less subject to collapse than any wound or pleated cartridge.

*Furthermore, the cartridge materials meet FDA specifications, making it completely safe for applications involving potable drinking water, beverages, cosmetics, syrups, etc., up to 145°F (63°C). The clean white cellulose fiber construction will not impart taste, odor, or color to the liquid being filtered when used within the recommended temperature limit.**

Construction

The cartridge is created by bonding cellulose fibers together with a pure melamine resin. By fusing the two materials together this way, we create a unit that will withstand high pressure differentials. In addition, our unique method gives the cartridge a bonded inner surface which minimizes fiber migration and particle unloading.

Different lengths are offered, ranging from 9-3/4" up to 40". Unlike some other cartridges, the longer lengths do not consist of glued-together short cartridges, but continuous units that cannot separate during use.

Two styles of this cartridge are available, grooved and ungrooved. The grooved cartridge is designed to provide 68% more surface area, resulting in a higher dirt holding capacity. The ungrooved

cartridge is preferred when strength is a major concern, such as in high differential pressure applications (paint, ink, high viscosity fluids, etc.). It is also superior in its ability to coalesce water when used in air filtration applications. Both styles are designed to withstand temperatures up to 250°F, in closed circuit water applications where no oxidizing air is present.

Chemical Compatibility

The cross-link of cellulose fibers and melamine resin creates a highly resistant structure which is compatible with most liquids and mild chemicals. (See chart for specific applications). The RBCM Cartridge is suitable for many commercial and industrial filtration applications such as those dealing with edible oils, mineral oils, gasoline, alcohols, photographic solutions, paints and inks.

* Refer to Chemical Compatibility Chart listed on back side

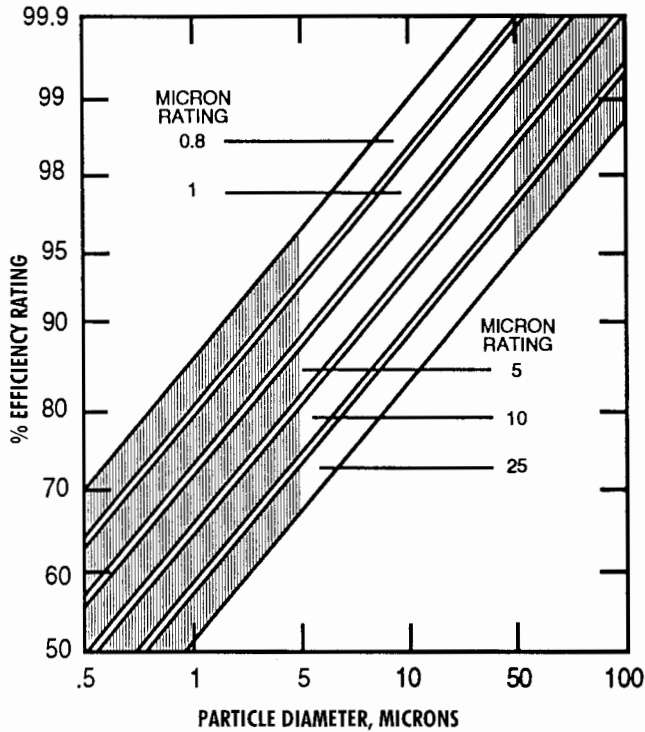
IDENTIFICATION CODES

RBCM	5	G	9.75
	Micron	Style	Length
	.8	S = Smooth	9.75" (24.8cm)
	1	G = Grooved	19.5" (49.5cm)
	5		20" (50.8cm)
	10		29.25" (74.3cm)
	25		30" (76.2cm)
			39" (99.0cm)
			40" (101.6cm)

CHEMICAL COMPATIBILITY

	CONC. % Max.	TEMP. °F (°C)
Acetic Acid	5	100 (37.8)
Acetone	100	70 (21.1)
Ammonium Carbonate	Any	70 (21.1)
Ammonium Hydroxide	Any	Note
Beer	Any	160 (71.1)
Benzene	100	200 (93.3)
Calcium Carbonate	Any	200 (93.3)
Chloroform	Any	180 (82.2)
Ether	Any	150 (65.6)
Ethyl Alcohol	Any	150 (65.6)
Freon & Ethylene Oxide	12-88	-30 (-34.4)
Fructose	Any	250 (121)
Glycol	Any	250 (121)
Heptane	Any	250 (121)
Inks	Any	Operating
Isopropyl Alcohol	Any	250 (121)
Lacquer Thinner	Any	120 (48.9)
Lanolin	Any	120 (48.9)
Lead Acetate	20	250 (121)
Methyl Alcohol	90	250 (121)
Methylene Chloride	Any	150 (65.6)
Nickel Chloride	5	100 (37.8)
Nitrobenzene	70	Note
Oleic Acid	Any	100 (37.8)
Pickling Brine (food)	Any	Note
Propane Gas	Any	120 (48.9)
Sodium Cyanide	Any	Note
Sodium Sulfide	40	140 (60.0)
Tartaric Acid	Any	120 (48.9)
Toluene	Any	200 (93.3)
Vinega	Any	100 (37.8)
Water	N/A	250 (121)
Whiskey/Wines	Any	120 (48.9)
Xylene Xylol	Any	70 (21.1)

PERFORMANCE MEASURED BY ASTM F1170-88



ESTIMATED PERFORMANCE BY EXTRAPOLATION

Efficiency is based on the rate that individual-size particles of AC Test Dust (silica) are separated from 70° F (21° C) water, in feeding that mixture to a 9-3/4" cartridge at 2 GPM (7.6 LPM) at the start of a prolonged test (when cartridge is still clean).

Micron ratings shown are based on performances comparable to similarly rated cartridges now on the market.

NOTE: Some chemicals have little or no effect at room temperature but data is lacking concerning the effects of those chemicals at elevated temperatures. We advise users to conduct their own tests to determine the safety and suitability of our products with any chemical at any temperature for the user's specific applications.

WARNING: For drinking water applications, do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the unit.

CAUTION: Filter must be protected from freezing which can cause cracking of the filter and water leakage.

NOTE: Not for final filtration in medical applications.

WE RESERVE THE RIGHT TO CHANGE DESIGN, SPECIFICATIONS OR PRICE WITHOUT NOTICE.

"AMERICAN MADE BY THE QUALITY LEADER"

T M



Water Quality
MEMBER

American Water Works
Association

AMETEK

PLYMOUTH PRODUCTS DIVISION
502 INDIANA AVE • PO BOX 1047
SHEBOYGAN WI 53082-1047 USA

TEL: (414) 457-9435 FAX: (414) 457-6652

© 1990 by Ametek, Inc.

<http://www.ametekwater.com/aemindex.htm>

Printed in USA
Bulletin T-11F 12/96

Call toll free 1-800-645-5426