

**Culligan**<sup>®</sup>



## **WATER CONDITIONING MEDIA SPECIFICATIONS**

CULLIGAN INTERNATIONAL COMPANY/NORTHBROOK, ILLINOIS  
CULLIGAN USA DIVISION/NORTHBROOK, IL 60062 — SAN BERNARDINO, CA 92402  
CULLIGAN FRANCE S.A./YVELINES, FRANCE — CULLIGAN ITALIANA SpA/BOLOGNA, ITALY  
CULLIGAN OF CANADA, LTD./MISSISSAUGA, ONTARIO, CANADA L5K 1A5  
CULLIGAN ESPANA S.A./08191 RUBI (BARCELONA), SPAIN — JEBEL ALI FREE ZONE/DUBAI, UNITED ARAB EMIRATES



**⚠ WARNING: IF INCORRECTLY INSTALLED, OPERATED OR MAINTAINED, THIS PRODUCT CAN CAUSE SEVERE INJURY. THOSE WHO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT SHOULD BE TRAINED IN ITS PROPER USE, WARNED OF ITS DANGERS, AND SHOULD READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO INSTALL, OPERATE OR MAINTAIN THIS PRODUCT.**

	<b>CULLEX® RESIN</b> <i>(See Note 1)</i>	<b>CULLEX PLUS</b> <i>(See Note 1)</i>	<b>CULLEX HI-V™ RESIN</b> <i>(See Note 1)</i>	<b>SUPER I® / SUPER S™ MEDIA</b>	<b>RUST MASTER™ MULTI-BLEND MEDIA</b>	<b>RUST MASTER “D” GRAVEL UNDERBED</b>	<b>CULLSORB® B MEDIA</b> <i>(See Note 3)</i>
<b>COLOR</b>	Various shades of light tan thru dark brown			Black to gray	Light gray to dark gray	Dark brown	Green-black particles
<b>SIZE RANGE</b>	0.35 x 1.2 mm	0.20 x 1.2 mm	0.71 x 1.2 mm	0.42 x 1.7 mm	0.30 x 0.84 mm	0.42 x 0.71 mm	0.25 x 1.0 mm
	16-45 Mesh	16-60 Mesh	16-25 Mesh	12-40 Mesh	20-50 Mesh	25-40 Mesh	18-60 Mesh
<b>FUNCTION</b>	Softening & removal of small amounts of soluble iron and manganese			Removal of iron and hydrogen sulfide	Removal of iron and hydrogen sulfide	Supporting bed for Multi-Blend media	Removal of iron & hydrogen sulfide
<b>pH RANGE</b>	No limiting specifications			6.5 - 8.5		No limiting specifications	6.5-11.0
<b>IRON (Fe) REMOVAL</b>	0.2-20 ppm (0.2-20 mg/L) with qualifications	5.0 ppm maximum with qualifications	0.5 ppm (0.5 mg/L) maximum	Up to 25 ppm (25 mg/L)	Up to 20 ppm (20 mg/L)	No removal	Up to 10.0 ppm (10.0 mg/L)
<b>HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL</b>	No removal			10 ppm (10 mg/L) maximum	5 ppm (5 mg/l) maximum	No removal	Up to 5.0 ppm (5.0 mg/L)
<b>TEMP. LIMITS</b>	Not more than 200°F (93° C) in oxygen-free water				Not more than 100°F (38° C)		Not more than 100°F (38° C)
<b>CAPACITY (as shipped)</b>	30,000 grains per cu. ft. minimum (66 g/L) as CaCO <sub>3</sub> <i>(See Note 2)</i>	32,000 grains per cu. ft. minimum (70 g/L) - as CaCO <sub>3</sub>	27,500 grains per cu. ft. minimum (60 g/L) as CaCO <sub>3</sub> <i>(See Note 2)</i>	Approx. 750,000 ppm-gal. (28403)	None observed	Not applicable	Approx. 8,000 ppm-gal. (30.3 g) iron or 4,000 ppm-gal. hydrogen sulfide
<b>NOMINAL WEIGHT PER CUBIC FOOT (as shipped)</b>	48-54 lb (22-25 kg) at approx. 45% moisture	52 lb (23.5 kg) at approx. 45% moisture	53 lb (24 kg) at approx. 45% moisture	55 lb (25 kg)	90 lb (41 kg)	100 lb (45 kg)	90 lb (41 kg)

Material Safety Data Sheets are available on all these media on request.

	<b>CULLSORB® C MEDIA</b>	<b>CULLAR® D PLUS MEDIA</b>	<b>CULLAR F MEDIA</b>	<b>CULLAR G MEDIA</b>
<b>COLOR</b>	Black particles			
<b>SIZE RANGE</b>	0.32 x 0.84 mm	0.42 x 1.7 mm	0.59 x 2.4 mm	0.42 x 1.7 mm
	20-48 Mesh	12-40 Mesh	8-30 Mesh	12-40 Mesh
<b>FUNCTION</b>	Iron removal	Removal of tannin, tastes & odors — Dechlorination	Removal of tastes & odors — Dechlorination	Removal of synthetic detergents and/or certain oils
<b>pH RANGE</b>	Above 6.5	No limiting specifications		
<b>IRON (Fe) REMOVAL</b>	Up to 7.0 ppm (7 mg/L) (See Note 4)	Oxidized iron only (Cul-Clear® System) with qualifications	Oxidized iron only	
<b>HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL</b>	No removal			
<b>TEMP. LIMITS</b>	No limiting specifications			
<b>CAPACITY (as shipped)</b>	Backwash when rate of flow is noticeably retarded	Replace when taste, odor or chlorine are no longer removed		Replace when synthetic detergent and/or oil are no longer removed
<b>NOMINAL WEIGHT PER CUBIC FOOT (as shipped)</b>	45 lb (20.4 kg)	23 lb (10.4 kg)	30 lb (13.6 kg)	27 lb (12.3 kg)

NOTE 1 Cullex® resin should not be stored in bags for more than six months.

NOTE 2 Based on treating water containing 10 grains per gallon (1710 mg/L) of hardness, free of color, oil, and turbidity and at service flow rates not exceeding 20 gpm per square foot of bed area (velocity of 49 m/hr). These are nominal capacities based on resin manufacturers' data and will vary with influent water characteristics, temperature, pressure, and other factors.

NOTE 3 The sum of iron and two times hydrogen sulfide should not exceed 10.0 ppm (10 mg/L). Warranty is void if stripping of Cullisorb media occurs as a result of exceeding the stated hydrogen sulfide capacity. For Cullisorb media to perform properly, a minimum total alkalinity of 6 gpg (100 mg/L) is required.

NOTE 4 Dissolved oxygen equal to or exceeding 15% of the iron content, expressed in parts per million (mg/L) is required for effective operation of Cullisorb C. A minimum total alkalinity of 6 gpg (100 mg/L) is required. Water must be free of hydrogen sulfide.

	<b>CULLAR® M MEDIA</b>	<b>CULLNEU® MEDIA</b>	<b>CULLNEU C MEDIA</b>	<b>CULLCITE® MEDIA</b>	<b>CULLSAN® MEDIA</b>
<b>COLOR</b>	Black particles	White particles		Black Particles	Various
<b>SIZE RANGE</b>	0.42 x 1.7 mm	0.59 x 3.4 mm	0.42 x 1.7 mm	0.59 x 2.0 mm	Various
	12-40 Mesh	6-30 Mesh	12-40 Mesh	10-30 Mesh	
<b>FUNCTION</b>	Removal of chlorine and chloramines for medical applications.	Elevate pH and filter insoluble iron		Removal of precipitated iron and other light turbidity	Filtration or underbedding
<b>pH RANGE</b>	No limiting specifications	6.0 - 7.5	5.0 - 7.5	4.0 to 12.0	No limiting specifications
<b>IRON (Fe) REMOVAL</b>	Oxidized iron only	Oxidized iron only		Oxidized iron removal after chlorination and retention	Oxidized iron only (with qualifications)
<b>HYDROGEN SULFIDE (H<sub>2</sub>S) REMOVAL</b>	No removal				
<b>TEMP. LIMITS</b>	No limiting specifications				No limiting specifications
<b>CAPACITY (as shipped)</b>	Replace when chlorine or chloramines exceed limit for application	Add media when pH elevation no longer occurs or backwash when rate of flow is noticeably retarded		Backwash when rate of flow is noticeably retarded	
<b>NOMINAL WEIGHT PER CUBIC FOOT (as shipped)</b>	26-27 lb (11.8-12.3 kg)	90 lb (41 kg)		56 lb (25.5 kg)	Varies with material