

# AGC-40 MG

**Granular activated carbon, bituminous carbon, acid washed semi-moist, medical grade, standard mesh (12x40)**

ResinTech AGC-40 MG is a medical grade acid washed semi moist 12 x 40 mesh granular activated carbon. It is Gold Seal Certified by the WQA for use in potable water applications. It is certified to have low leachable concentrations of various contaminants listed by the AAMI. It is dust free and acid washed to reduce initial pH and conductivity. ResinTech AGC-40 MG is intended for medical and pharmaceutical applications.



## FEATURES & BENEFITS

- Coconut Shell, Premium Grade
- Optimum Mesh Size
- High Adsorption Efficiency
- Superior Physical Stability
- Superior Chloramine Reduction
- Reduced Fines And Dust
- Batch Certification

## APPLICATIONS

- Dechlorination
- Taste & Odor Correction
- Organics



Meets NSF/ANSI/CAN 61

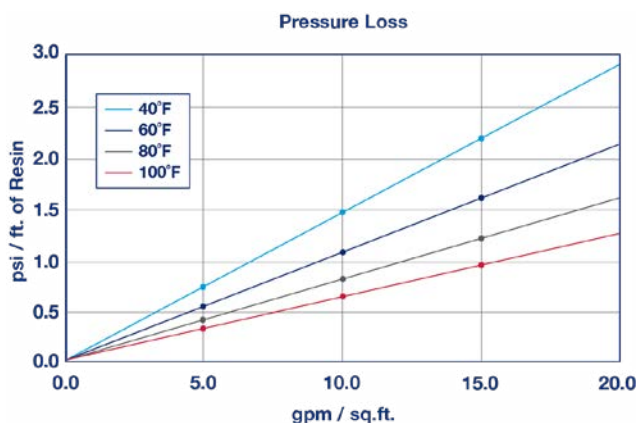
AGC-40 MG

Physical Form	Carbonaceous Granules	Moisture Retention (%)	20 to 30
Particle Size US Mesh (µm)	12 (1680) to 40 (400)	Shipping Weight	37 - 39 lbs/cu.ft. (593 - 625 g/L)
< 50 mesh (300 µm) %	< 5%	Color	Black

**CARBON SPECIFICATIONS**

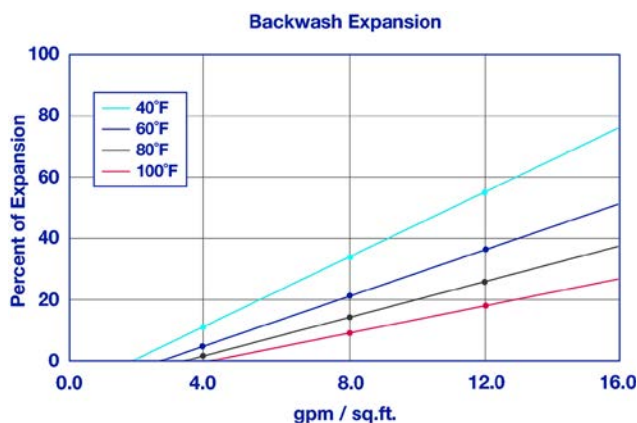
Acid Washed	Acid Washed	Dry Density (as used)	34 lbs./cu.ft.
Min. Abrasion Number	75	Min. Chlorine Number (mg/gm)	1000
Acid Soluble Ash	less than 0.5%	Min. Iodine Number (mg/gm)	1000
Total Ash (typical)	4 to 5%	Min. Molasses Number (mg/gm)	230
Wet Density (as used)	38.0 lbs./cu.ft.		

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech AGC-40 MG per foot of bed depth as a function of flow rate at various temperatures.

**BACKWASH EXPANSION**



The graph above shows the expansion characteristics of ResinTech AGC-40 MG as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	212°F (100°C)	Flow Rate	
Backwash Expansion (%)	15 to 25	Working Service	Depends on fluid viscosity, Contact ResinTech
Backwash Flow Rate	4-6 gpm/cu.ft. (32-48 BV/h)	Chlorine Removal	1 to 2 gpm/cu. ft.
Operating pH Range	6.5 to 7.5	Organics Removal	0.5 to 1.0 gpm/cu. ft.
Support Bed Depth (in)	12	Bed Depth (in)	
		Chlorine Removal	24
		Organics Removal	36



**ORGANICS REMOVAL**

Removal of organics by activated carbon is variable and is site specific. In general, large organic molecules are removed more completely than smaller molecules. The probable mechanism of removal is adsorption into the carbon pores. Organics with fewer than 6 carbon atoms are not well removed. Aromatic organic molecules are generally removed better than aliphatic molecules. Organic ions are generally not well removed. Polar molecules are not removed as well as non-polar molecules.

**CHLORINE REMOVAL**

ResinTech **AGC-40-MG** activated carbon can be expected to remove a minimum of one pound of chlorine per pound of carbon. A 24" deep bed of ResinTech **AGC-40-MG** will reduce 1 ppm of inlet chlorine to below the limit of detection.

**METALLIC IMPURITIES**

Aluminum (Al) mg/Kg	1000	Lead (Pb) mg/Kg	1
Arsenic (As) mg/Kg	10	Mercury (Hg) mg/Kg	0.01
Barium (Ba) mg/Kg	100	Silver (Ag) mg/Kg	1
Chromium (Cr) mg/Kg	5	Zinc (Zn) mg/Kg	5
Copper (Cu) mg/Kg	50		

**SAFETY DATA SHEETS (SDS)**

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at [resintech.com](http://resintech.com)

