

# PRODUCT SPECIFICATION SHEET

## KLEEN AGC-40-MG

BITUMINOUS CARBON

**MEDICAL GRADE  
ACID WASHED SEMI-MOIST  
BITUMINOUS CARBON  
STANDARD MESH (12X40)**

ResinTech AGC-40-MG is a medical grade acid washed semi moist 8 x 30 mesh bituminous coal based 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.

### APPLICATIONS

- Pharmaceutical
- Chlorine Removal
- Organics Removal

### TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

<b>Physical Form</b>	Carbonaceous Granules
<b>Particle Size</b>	12 to 40 US Mesh (400 - 1680 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 5%
<b>Temp Limit</b>	212°F (100°C)
<b>Moisture Retention</b>	20% to 30%
<b>Shipping Weight</b>	37 - 39 lbs/ft <sup>3</sup> (593 - 625 g/L)
<b>Color</b>	Black
<b>Uniform Particle Size</b>	Yes

### PACKAGING OPTIONS

- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

### CERTIFICATIONS

WQA Gold Seal



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Revision 1.0  
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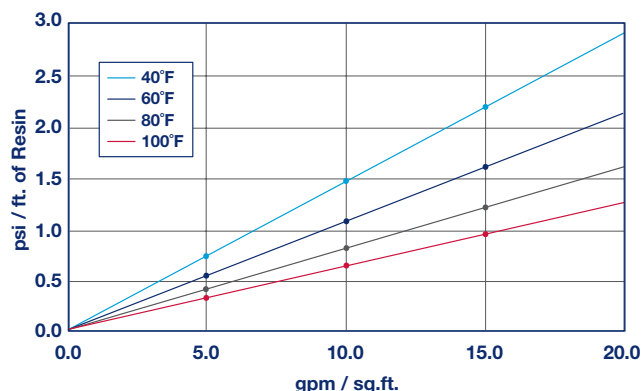
### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Sodium form	250°F
Minimum bed depth	
Chlorine removal	24 inches
Chloramine removal	36 inches
Support bed	12 inches
Backwash expansion	15 to 25 percent
Backwash flow rate	4 to 6 gpm/sq.ft.
Service flow rate	
Chlorine removal	1 to 2 gpm/cu.ft.
Chloramine removal	0.5 to 1.0 gpm/cu.ft.

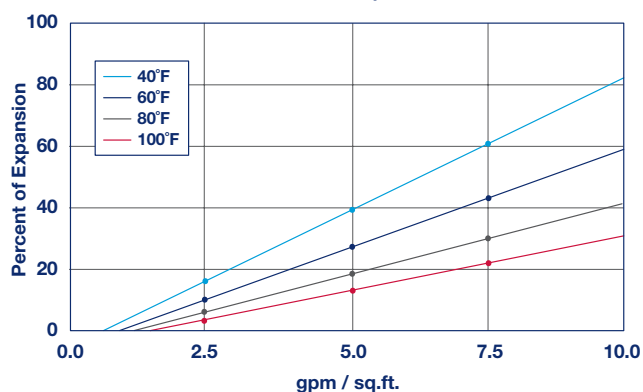
Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums.  
For operation outside these guidelines, contact ResinTech Technical Support



**Pressure Loss**



**Backwash Expansion**



## ORGANICS REMOVAL

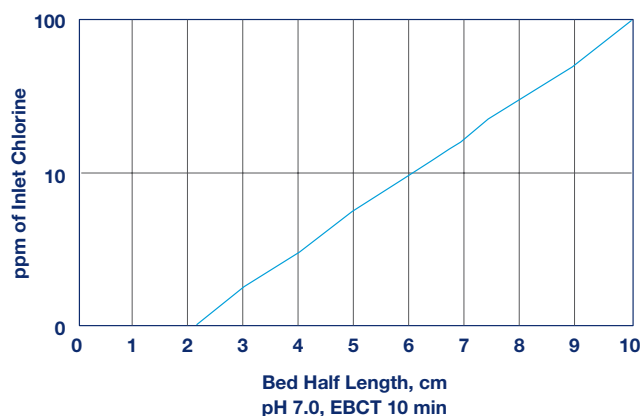
Removal of organics by activated carbon is variable and is site specific. In general, large organic molecules are removed more completely than smaller molecules. The probable mechanism of removal is adsorption into the carbon pores. Organics with fewer than 6 carbon atoms are not well removed. Aromatic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

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.

**Chlorine Removal**



## MEDICAL GRADE SPECIFICATIONS

Acid Soluble Ash	Less than 0.5%
Total Ash (typical)	4 to 5%
pH (as shipped)	6.5 to 7.5
Acid Soluble Metallic Impurities as mg/kg of moist carbon	
Aluminum (Al)	1000 mg/Kg
Arsenic (As)	10 mg/Kg
Barium (Ba)	100 mg/Kg
Chromium (Cr)	5 mg/Kg
Silver (Ag)	1 mg/Kg
Lead (Pb)	1 mg/Kg
Mercury (Hg)	0.01 mg/Kg
Zinc (Zn)	5 mg/Kg
Copper (Cu)	50 mg/Kg
Moisture (as shipped)*	Typical 30-40%

\*Shipping weight based on backwashed and drained density

