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# MB6040SG

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## MIXED BED RESIN

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### **Aquatrol MB6040SG Mixed Bed Resin**

is a semi-conductor grade ion exchange mixed bed resin which has been designed for numerous applications, including final polishing in the highest purity water treatment applications.

### **Aquatrol MB6040SG Mixed Bed Resin**

is a pre-mixed resin product composed of an equivalent mixture of high capacity, fully regenerated strong acid, and strong base gel type ion exchange resins.

### **The Aquatrol MB6040SG Mixed Bed Resin**

mixture exhibits no clumping and ensures perfect mixed bed equilibrium performance. The uniform particle size of the resins maximizes the kinetic performance of the mixed bed allow the use of high service flow rates to achieve the most effective balance of pressure drop and purity, characteristics which are essential to produce water of the highest achievable purity with a minimum volume of rinse water.

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Typical Properties	Cation H <sup>+</sup>	Anion OH <sup>-</sup>
Total exchange capacity, eq/L	≥ 2.00	≥ 1.10
Moisture holding capacity, %	44.0 - 51.0	54.0 - 60.0
Particle size		
Uniformity coefficient	≤ 1.20	≤ 1.20
Harmonic mean size	600 - 700 μm	580 - 680 μm
H form % of sites	≥ 99	-
OH form % of sites	-	≥ 95.0
Cl form % of sites	-	≤ 0.5
CO <sub>3</sub> form % of sites	-	≤ 5.0
SO <sub>4</sub> form % of sites	-	≤ 0.1

These properties are typical but do not constitute specifications.

### MAXIMUM OPERATING TEMPERATURE

140 °F (60 °C)

### FEED WATER TEMPERATURE

60 to 77 °F (15 to 25 °C)

### MINIMUM BED DEPTH

3 feet (900 mm)

### RECOMMENDED INFLUENT WATER QUALITY

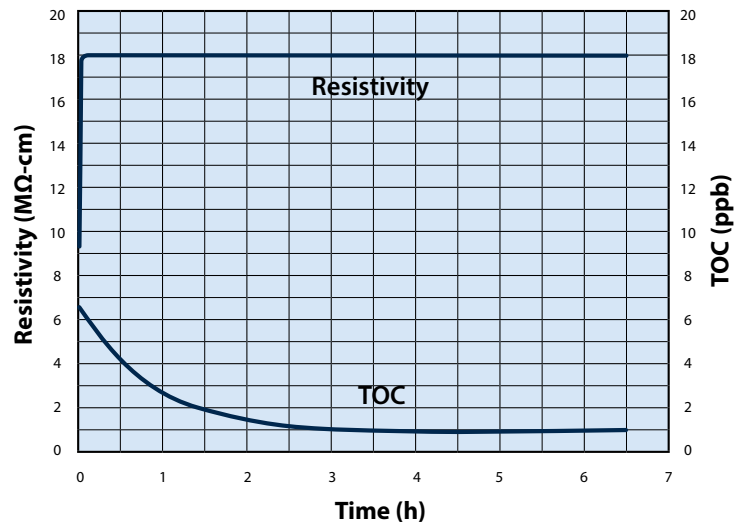
Inlet Resistivity > 17 MΩ.cm  
Inlet Silica < 2 ppb  
Inlet Total Organic Carbon < 15 ppb

### Service flow rate

30 to 50 BV\*/h

\* 1 BV (Bed Volume) = 1 m<sup>3</sup> solution per m<sup>3</sup> resin (  
1BV/h = 0.125 gpm/ft<sup>3</sup>)

### RESISTIVITY AND TOC RINSE PERFORMANCE



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