

# MAGNA WBG30

WEAK BASE ANION

**EPOXY POLYAMINE GEL  
FREE BASE FORM**

ResinTech WBG30 is a free base form granular gel epoxy polyamine weak base anion resin. It has a higher capacity than other anion exchange resins and has substantial strong base functionality. WBG30 is intended for single use applications that require the highest possible operating capacity.

## APPLICATIONS

- Cartridge Applications
- Single Use Applications

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
<b>Polymer Matrix</b>	Epoxy Polyamine Gel
<b>Ionic Form</b>	Free Base
<b>Functional Group</b>	Polyamine
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	12 to 50 US Mesh (297 - 1680 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 1%
<b>Uniformity Coefficient</b>	2.0
<b>Reversible Swelling</b>	Free Base to HCl 10% to 15%
<b>Temp Limit</b>	110°F (43°C)
<b>Capacity (meq/mL)</b>	2.8
<b>Moisture Retention</b>	52% to 58%
<b>Shipping Weight</b>	38 - 40 lbs/ft <sup>3</sup> (609 - 641 g/L)
<b>Color</b>	Amber
<b>Regenerability</b>	Yes

## PACKAGING OPTIONS

- 500 ml samples
- 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

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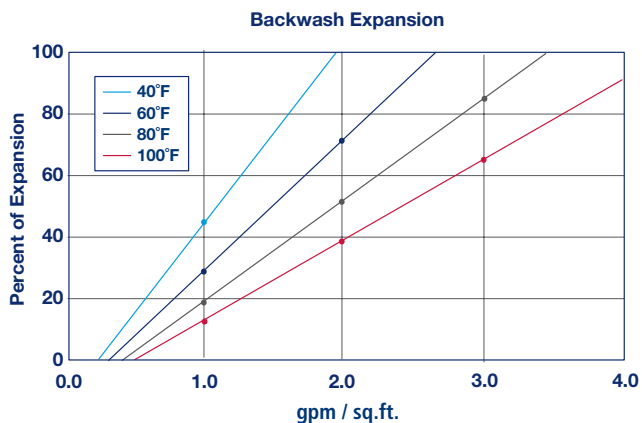
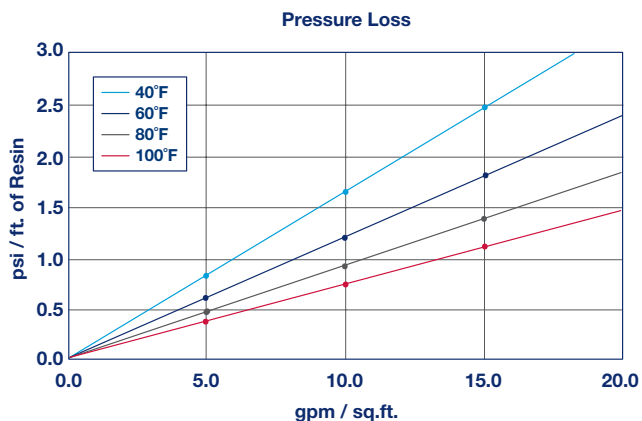


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### CARTRIDGE USE

ResinTech WBG30 has higher capacity than any other weak base anion resin. The very high capacity makes WBG30 an ideal choice for cartridges. WBG30 is a granular rather than a spherical media.

### SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	Free Base form	110°F
Minimum bed depth		24 inches
Backwash expansion		25 to 50 percent
Maximum pressure loss		20 psi
Operating pH range		<9 SU
Regenerant Concentration	Hydroxide cycle	1 to 6 percent NaOH
Regenerant level		3 to 8 lbs./cu.ft.
Regenerant flow rate.		0.5 to 1.0 gpm/cu.ft.
Regenerant contact time		>30 minutes
Displacement flow rate		Same as dilution water
Displacement volume		10 to 15 gallons/cu.ft.
Rinse flow rate		Same as service flow
Rinse volume		35 to 60 gallons/cu.ft.
Service flow rate		1 to 4 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

### SINGLE USE APPLICATIONS

ResinTech WBG30 is ideal for single use applications because it has higher capacity than any other weakly basic anion resin. It can be used in disposable cartridges or in larger tanks where the resin is sluiced out when spent and replaced with fresh resin. Aries Filterworks, a division of ResinTech, can provide WBG30 in cartridges or tanks for a variety of single use applications.

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