

# United States Resin Company

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## A-WM

### MACROPOROUS WEAK BASE ANION ION EXCHANGE RESIN

(Designed for use in high purity water treatment applications)

#### Product Description

US Resin A-WM (free-base or OH form) resin is a high capacity, organic-fouling resistant porous gel Type I weak base anion exchange resin.

It can be used in the preparation of pure water, especially for water source with higher salt and organic content. It is also used in treating electroplating wastewater to recover chromium.

#### Typical Physical, Chemical & Operating Characteristics

Polymer Structure	Cross-linked polystyrene, macroporous
Physical Form and Appearance	Semi-transparent spherical beads
Whole Bead Count	90% Minimum
Functional Group	-N(CH <sub>3</sub> ) <sub>2</sub> H <sub>2</sub> O
Ionic Form (as shipped)	Free base
Shipping Weight, approx.	675 g/l (42 lb./ft. <sup>3</sup> )
Mesh Size (US Std.)	16-50
Moisture retention,	48 - 58%
Total Exchange Capacity	1.4 meq/mL
pH Range	0 - 9

#### CHEMICAL AND THERMAL STABILITY

US Resin's A-WM resin is insoluble in dilute or moderately concentrated acids, alkalies, and in all common solvents. However, exposure to significant amounts of free chlorine, "hypochlorite" ions, or other strong oxidizing agents over long periods of time will eventually break down the cross-linking. This will tend to increase the moisture retention of the resin, decreasing its mechanical strength as well as generating small amounts of extractable breakdown products. It is thermally stable to 100°C (210 °F). The OH form resin is recommended for application temperature lower than 65°C (150 °F).