Nuclear Grade Ion Exchange Resin - Self Indicating

The product is a nuclear grade strong acid self indicating cation exchange resin especially designed for the removal of ammonia from condensate circuits thus making it suitable for contact with equipment fabricated with copper components. The ammonia removal also enables conductivity measurements to be made on the treated condensate sample to evaluate the condition of the main condensate stream. Its high bead integrity, excellent chemical and physical stability make this resin ideally suitable for use as described above and in high purity mixed bed demineralisation where self indication is required. The product contains extremely low levels of other metal cations before being carefully converted to the high purity hydrogen form. It may be mixed in the desired ratio with the strong base anion resin, which is supplied highly converted to the hydroxide form. Such mixtures are capable of removing both cationic and anionic contaminants. All Purolite nuclear resins are supplied to exacting standards of high purity as given in the specifications below.

Basic Features:

Application	Circuit Conditioning & Control
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Matrix Structure	
Functional Group	Sulphonic acid
Ionic form as shipped	H^+

Product Data:

Total Capacity (min.)	Na^+	1.90 eq/l
Total Capacity (min.)	Na^+	41.50 kGr/ft^3
Moisture Retention	H^+	53-57 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na^+ □ H^+	8 %
Specific Gravity		1.20 g/ml
Shipping Weight (approx.)		755-790 g/l
Shipping Weight (approx.)		47.2-49.4 lbs/ft^3
Temp Limit	H^+	120 °C
Temp Limit	H^+	250 °F
pH Limits		0-14
Ionic Form (min.)		99.90 %
Impurities Sodium (max.)		40 ppm
Impurities Iron (max.)		50 ppm
Impurities Heavy Metals(max.)		30 ppm

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