

### Nuclear Grade Resins

PRODUCT NAME	INDION 223H	INDION 223 Li	INDION ARU 103
Applications	High purity ion exchange resin for use in nuclear power plants	High purity ion exchange resin for use in nuclear power plants	Recovery of Uranium from leach liquors
Resin Type	Gel Strong Acidic Cation	Gel Strong Acidic Cation	Isoporous Strong Base Anion
Matrix Type	Styrene DVB	Styrene DVB	Crosslinked Polystyrene
Functional Groups	- SO <sub>3</sub> <sup>-</sup>	- SO <sub>3</sub> <sup>-</sup>	N <sup>+</sup> R <sub>3</sub>
Standard Ionic Form	H <sup>+</sup>	Li <sup>+</sup>	Cl <sup>-</sup>
Particle size range – mm	0.3 – 1.2	0.3 – 1.2	0.3 – 1.2
% Moisture	50 – 55	50 – 55	45 - 48
Max. Operating Temperature ° C	120	120	80 (SO <sub>4</sub> )
Total Exchange Capacity, meq/ml	1.8	1.8	1.4
Volume change %	-	-	-

PRODUCT NAME	INDION 102	INDION GS 300NG
Applications	High purity ion exchange resin for use in nuclear power plants	High purity ion exchange resin for use in nuclear power plants
Resin Type	Isoporous Strong Base Anion	Gel Strong Base Anion
Matrix Type	Crosslinked polystyrene	Styrene DVB
Functional Groups	N <sup>+</sup> R <sub>3</sub>	N <sup>+</sup> R <sub>3</sub>
Standard Ionic Form	OH <sup>-</sup>	OH <sup>-</sup>
Particle size range – mm	0.3 – 1.2	0.3 – 1.2
% Moisture	≤ 60	≤ 60
Max. Operating Temperature ° C	60	60
Total Exchange Capacity, meq/ml	1.0	1.0
Volume change %	-	-

<b>PRODUCT NAME</b>	<b>INDION CAM 14</b>	<b>INDION CAM 19</b>
Applications	To produce high purity alkaline water for use in nuclear power plants	For use in nuclear power plants
Resin Type	Mixed Bed resins	Mixed Bed resins
Matrix Type	Styrene DVB	Styrene DVB
Functional Groups	$-\text{SO}_3^-/\text{N}^+\text{R}_3$	$-\text{SO}_3^-/\text{N}^+\text{R}_3$
Standard Ionic Form	$\text{H}^+/\text{OH}^-$	$\text{Li}^+/\text{OH}^-$
Particle size range – mm	0.3 – 1.2	0.3 – 1.2
% Moisture	-	-
Max. Operating Temperature ° C	60	60
Total Exchange Capacity, meq/ml	-	-
Volume change %	-	-