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**AMBERLITE™ IRN9766**

Industrial Nuclear Grade Strong Base Anion Resin

**Introduction**

AMBERLITE IRN9766 is a nuclear grade strong base anion exchange resin. Its matrix is based on crosslinked polystyrene. Its functional groups are quaternary ammonium of type trimethylamine (type 1). Due to its macroporous structure, AMBERLITE IRN9766 has a high removal capacity for colloidal products, especially silver.

**Properties**

Matrix	Styrene divinylbenzene copolymer
Functional groups	-N <sup>+</sup> -(CH <sub>3</sub> ) <sub>3</sub>
Physical form	Beige spherical beads
Ionic form as shipped <sup>[1]</sup>	OH <sup>-</sup> (95 % minimum)
Carbonate sites content <sup>[1]</sup>	≤ 5.0%
Chlorite sites content <sup>[1]</sup>	≤ 0.20%
Total exchange capacity <sup>[1]</sup>	≥ 0.85 eq/L (OH <sup>-</sup> form)
Moisture holding capacity <sup>[1]</sup>	66 to 75 % (OH <sup>-</sup> form)
Shipping weight	700 g/L
Particle size	
Harmonic mean size <sup>[1]</sup>	0.600 – 0.840 mm
Uniformity coefficient <sup>[1]</sup>	≤ 1.70
<0.315 mm <sup>[1]</sup>	0.2% max
>1.000 mm <sup>[1]</sup>	3.0% max
0.400 to 1.000mm <sup>[1]</sup>	80% min

<sup>[1]</sup> Contractual value

Test methods available upon request

**Applications**

Due to its high porosity, AMBERLITE IRN9766 has a very high capacity to retain silver when it is on the colloidal form. It is especially designed for treating raw water.

**Purity**

As all nuclear grade products, AMBERLITE IRN9766 has been manufactured to meet all known specifications. Its purity specifications meet the following values (expressed in mg/kg dry product) :

Fe <sup>[1]</sup>	100	Pb	30
Na <sup>[1]</sup>	25	Hg	20
Cu	30	Silica <sup>[1]</sup>	100
Al	50	Total sulphate	600
Co	30	Total chloride	520

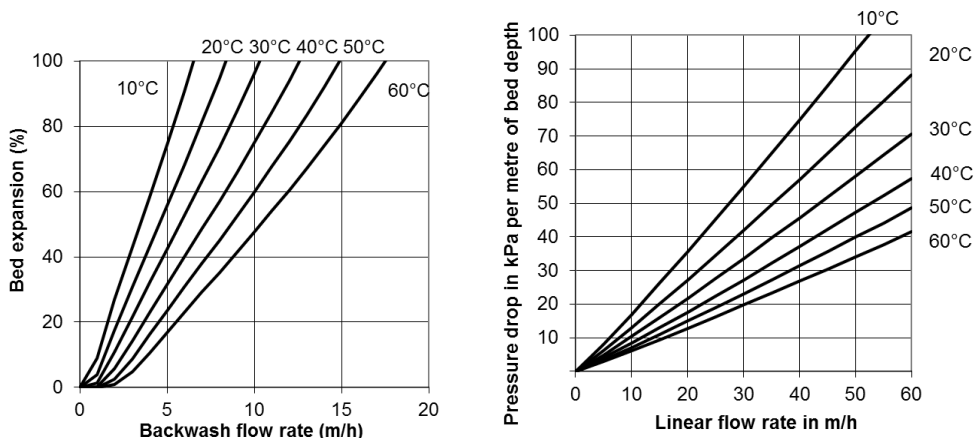


This anion exchange resin is supplied with a 95% minimum regenerated rate and a maximum:

Ionic chloride 0.2 % of the total capacity

Ionic sulphate 0.3 % of the total capacity

## Hydraulic characteristics



## Product stewardship

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### For more information about DOW™ resins, call the Dow Water & Process Solutions business:

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