

Distributed by:



S.I.A.T.A Asia Pacific Pte Ltd

37 Tannery Lane #06-08 Tannery House Singapore 347790 Tel: +65 6741 2994 • Fax: +65 6741 2995

www.siata.com.sg

AMBERLITE SR1L Na

Strongly Acidic Cation Exchange Resin

PRODUCT DATA SHEET

AMBERLITE SR1L Na is a gel type strong acid cation exchange resin of the sulphonated polystyrene type, used for water softening. Its principal characteristics are excellent physical, chemical and thermal stability, good ion exchange kinetics and high exchange capacity. AMBERLITE SR1L Na has been specially developed for potable

water and food applications (i.e. decalcification of saccharose thin juice) following a special manufacturing process which does not use any solvents. AMBERLITE SR1L Na is produced in a free flowing form which makes the filling of the units and cartridges very easy and rapid.

PROPERTIES	
Matrix Functional groups	Styrene divinylbenzene copolymer Sulphonates Amber beads Na* 2.05 eq/ L (Na* form) 41 to 49 % (Na* form) 820 g/ L 600 - 800 µm ≤ 1.8 <0.300 mm: 2.0 % max > 1.180 mm: 2.0 % max Insoluble in dilute solutions of acids or bases and common solvents

SUGGESTED OPERATING CONDITIONS (WATER TREATMENT)

Maximum operating temperature	120 °C	120 °C		
Service Flowrate		5 to 50* BV/ h		
Regenerants		H CI	H,SO,	
Level (g/L)		50 to 150	50 to 240	
Concentration (%)	10	5 to 8	0.7 to 6	
Flowrate (BV/ h)	2 to 8	2 to 5	2 to 20	
Min imum contact time	30 minute:	30 minutes		
Slowrinse				
Fast rin se		2 to 4 BV at service flow rate		

^{*}I BV (Bed Volume) = I m3 solution per m3 resin

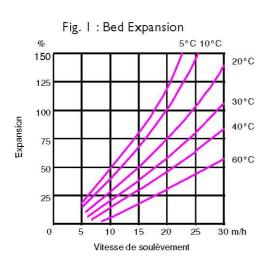
COMPLIANCE

AMBERLITE SR1L Na is approved in France, Austria, Poland, the UK for the treatment of potable water. It complies with the Council of Europe Resolution AP(97)1, and with US FDA 21 CFR 173.25 (a). All ingredients entering in the composition AMBERLITE SR1L Na are listed in German BgVV XXIV recommendation*, provided it has been pretreated according to Rohm and Haas recommendations.

AMBERLITE SR1L Na is approved by la Direction Générale de la Concurrence, de la Consommation et de la Répression des Fraudes in France as sugar industry processing aid.

further details regarding individual registrations/ compliances, please contact your nearest Rohm and Haas office.

* in Germany complies with DIN 19633 (<10 ppm TOC).



QUALITY CONTROL

AMBERLITE SR1L Na is analysed to ensure its compliance with high purity specification, particular:

- Physical and chemical properties,
- Individual release of certain substance in the treated water.
- Global release of organic substances expressed in TOC (Total Organic Carbon),
- Total microbial count.

HYDRAULIC CHARACTERISTICS

(Water Treatment)

Figure 1 shows the bed expansion of AMBERLITE SR1L Na, as a function of backwash flow rate and water temperature.

Figure 2 shows the pressure drop data for AMBERLITE SR1L Na, as a function of service flow rate and water temperature.

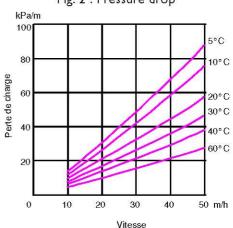


Fig. 2: Pressure drop

All our products are produced in ISO 9002 certified manufacturing facilities.

AMBERLITE is a trademark of Rohm and Haas Company, Philadelphia, U.S.A.

Ambiert It is a tracemark or norm and hass Company, Princepria, U.SA.

Ion exchange resins and polymeric adsorbents as produced, condain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Hass ensure on the recommend its ion exchange resins or polymeric adsorbents as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Hass technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong excitaing agents can cause explosive type reactions when mixed with lon Exchange resins. Proper design of process equipment to a security for the process of the pro to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials

Rotm and Haas Company makes no warranties either expressed or implied as to the accuracy or appropriateness of this data and expressly excludes any liability upon Rotm and Haas arising out of its use. We recommend that the prospective users determine for themselves the suitability of Rotm and Haas materials and suggestions for any use prior to their adoption. Suggestions for uses of our products of the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company. Material Safety Data Steets outlining the hazards and handling methods for our products are available on request.