

**•Descriptions**

Seplife® EMC7225S is a highly cross-linked amino acrylate carrier, functionalized with a short spacer (C2) and that has the appearance of white spherical beads. The particle size distribution is 100-300 micron. The resin is highly hydrophilic and has a porous structure combined with a very high surface area which is ideal for immobilization of enzymes. Amino resins require pre-activation with glutaraldehyde and then aldehyde groups form multipoint covalent binding between the enzyme and resin. All amino acrylate resins are designed to form very stable covalent linkages with different protein groups (amino, thiol, phenolic) *via* Schiff base in very mild experimental conditions of pH and temperature. Amino acrylates can be used in either stirred tank or bed reactor.

The high cross-linking of the resin ensures extremely high mechanical stability thus allowing the possibility to recycle the immobilized enzyme for many cycles.

**•Physical and Chemical Characteristics**

Matrix	Polyacrylate
Appearance	White opaque spherical beads
Functional group	Amino (C2)
Immobilized method	Covalent bond
Moisture content (%)	60-70
Shipping weight (g/ml)	0.68-0.78
Particle size (µm)	100-300
Pore size (Å)	500-700
Surface area (m <sup>2</sup> /g)	≧ 120
Chemical stability	The resin is insoluble in water, acid, alkali and methanol, ethanol, acetone, toluene, n-heptane, DMSO and other organic solvents.
Immobilization pH	4-10

**•Key features and Benefits**

- Easy immobilization through pre-activation with glutaraldehyde of the amino groups
- Good physical and chemical stability
- Long lifetime

**•Recommended Storage Conditions**

Recommended temperature of storage (°C)	2-20
Shelf life	3 years

**•Precautions**

Resins should be stored in sealed containers or bags where temperature was 2-20°C in dry conditions without exposure to direct sunlight.

Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.  
 In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.  
 Material and samples must be disposed according to local regulations.  
 Dry polymers will expand when become wetted and may cause an exothermic reaction.  
 Spilled materials on the floor can cause slippery conditions.

**·Ordering Information**

Product Name	Reference number	Packing size
Seplife® EMC7225S	PM025S01	500g
	PM025S02	1kg
	PM025S03	5kg
	PM025S04	10kg
	PM025S05	25kg

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