



Hy-SAP 100

Hygienic Superabsorbent Polymer - Technical Data Sheet

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Product Overview

Chemical Nature

Hy-SAP 100 is a salt of cross-linked polysodium acrylate, designed for high absorbency and retention in hygiene applications. It is supplied as white powder.

Key Features & Benefits

High absorption capacity for bodily fluids.
Excellent absorption under load (AUL).
Optimized particle size distribution for performance in absorbent cores.
Low residual monomers.

Primary Applications

Hy-SAP 100 is primarily used as an absorbent material in disposable hygiene products, including but not limited to:

- Baby diapers and training pants.
- Adult incontinence products.
- Feminine hygiene products (sanitary napkins, panty liners).
- Medical absorbent pads.
- Pet soil / Pet litter for moisture absorption and odor control.

Typical Properties (Hy-SAP 100)

Characteristic	Value
Physical Form	White powder
Bulk Density (g/l)	560 - 700
Absorption (0.9% NaCl, g/g)	Min. 32
pH (0.1% in 0.9% NaCl)	5.6 - 6.5
AUL (0.3psi in 0.9% NaCl, g/g)	Min. 25
AUL (0.7psi in 0.9% NaCl, g/g)	Min. 12
Mesh Size (20-80 mesh)	> 90%
Water Content (IR, %)	Max. 7

Application & Safety Information

Usage Guidelines

Typically incorporated into the absorbent core of hygiene products.
Dosage and placement depend on the specific product design and desired absorbency.
Ensure uniform distribution for optimal performance.
Store in a dry place to maintain absorbency before use.

Health and Safety

While generally considered safe for intended applications, avoid inhalation of dust. In case of eye contact with dust, rinse thoroughly with water. For industrial handling, use appropriate dust masks and ventilation. Refer to Material Safety Data Sheet (MSDS) for complete information.

Keep away from children in raw polymer form.
Non-toxic and non-irritating in finished hygiene products.

Handling, Storage & Packaging

Handling

Equipment Compatibility:

Standard polymer handling equipment can be used.
Avoid materials that can generate static electricity if dust is present.

Storage & Packaging

Storage Conditions:

Store in original, unopened package in a cool, dry, well-ventilated place.
Keep away from moisture and direct sunlight.
Shelf Life: Typically 24 months or more when stored as recommended.

Packaging Details:

Standard: 25 kg moisture-resistant bag.

Technical Service & Support

Our team can assist with product selection, application guidelines, and further information. Contact us for support.