

FACT SHEET

HYDRO SAN

PRODUCT OVERVIEW

Chitosan hydrogels, derived from marine polysaccharides, are widely recognized for their dual role in enhancing skin penetration and soothing irritated tissue. Owing to their cationic character, they form strong electrostatic interactions with the negatively charged skin surface, which not only increases adhesion and residence time but also promotes prolonged and controlled release of active compounds for improved therapeutic performance.

FEATURES AND KINETICS

- Enhance cell penetration by 5X
- Boosts skin penetration
- Improves permeability
- Accelerates repair
- Locks in moisture

MECHANISM OF ACTION

1. Enhanced Delivery: Bioadhesive, cationic action improves permeability and prolongs skin contact.
2. Repair & Regeneration: Promotes cell growth, collagen, and moisture retention for barrier repair.
3. Soothing Protection: Anti-inflammatory and antioxidant effects reduce irritation and stress.

KEY INGREDIENTS

- Chitosan

STORAGE CONDITIONS

- Store at 2-8 °C (refrigeration recommended) to maintain hydrogel integrity and prevent microbial growth. Do not freeze to avoid structural disruption.
- Store in sterile, airtight containers to avoid contamination and dehydration.
- Minimize exposure to heat, air, and repeated opening; use under aseptic conditions when possible.

Applications

- **Enhanced penetration:** Facilitates deep delivery of active ingredients into skin/tissue.
- **Moist barrier:** Maintains hydration while supporting re-epithelialization.
- **Therapeutic scaffold:** Cross-linked matrix enables controlled, sustained release of drugs or growth factors.