

# Chitin & Chitosan



An ISO 22000:2018 Co



Cattle Feed

Chitin is the second most abundant natural biopolymer in the world, behind only cellulose. It is also the most abundant naturally occurring polysaccharide that contains amino sugars. Chitin occurs as a component of crustacean shells, insect exoskeletons, fungal cell walls, microfauna and plankton. Chitosan is obtained by de-acetylation of chitin and is comprised of glucosamine and N-acetyl-glucosamine monomers linked through  $\beta$ -4 glycosidic bonds.

Chitin and Chitosan functions as:

- Antimicrobial – Inhibit growth of harmful Micro – organism.
- Flocculent & Chelation - Strong Binding Property
- Gel & Film forming – Adhesion in both solid and liquid form
- Bio stimulant – Promote growth to plants

## What we offer

Chitin flakes · Chitin Powder · Chitosan > 75% DA  
· Chitosan > 80% DA · Chitosan > 85% DA ·  
Chitosan > 90% DA · High bulk density Chitosan ·  
Chitosan Acetate · Chitosan Oligo Saccharide ·  
Carboxy Methyl Chitosan

## Company Profile

Established in 1982 Marine Hydrocolloids is India's largest manufacturer & exporter of Agar Agar (Powder & Strips), and also offers Spreadable Agar Agar branded as Wondergel, Carrageenan and Alginates. We offer different grades of these products to cater to industries ranging from Food, Confectionery, Bakery, Dairy to Cosmetics, Personal Care, Plant Tissue Culture, Dehydrated Culture media, Microbiology, Dental Castings and Pharmaceuticals.

Our four-decade long legacy has equipped us with the know-how that has constantly kept us on our toes to meet the demands of the changing nature of consumption.



Wound Care



Agriculture





Film for food packaging



Waste Water Treatment



Skin Care

## Properties

1. Nontoxic, Bio compatible and Environment friendly
2. Naturally degrade in Soil & Water due to environmental factors and enzymes.
3. Green solutions to replace chemicals for many Industries

## Packaging

25 Kg HDPE Bags

## Storage

Store in cool and dry place, Keep away from Moisture, Keep the packet tightly closed after use.

Shelf life – 2 Years

## Applications

- Agriculture - Bio – pesticide/ Fungicide, Controlled release fertilizer, Bio stimulants, Seed and Post-Harvest preservation, Tissue Culture.
- Cattle feed- Control the release of feed additives in ruminant Animals and permit food processors to recycle protein from food processing waste into animal feed.
- Health care - Worked as Fat absorbent, stabilize blood sugar and immunity booster It is also used in Wound Healing Ointment, Wound dressing, Ophthalmology, Orthopedics, Dental Care, Anti-bacterial agent in Sanitizer, Deodorants, Gloves, Mask etc.
- Hair Care – Shampoos, Rinses, Hair Colorants, Styling lotions, Hair sprays and Hair tonics
- Skin Care – Creams, Lotions, nail enamels, foundations, eye shadows, lipsticks, cleansing & Bath Agents.
- Oral Care- Tooth pastes, Mouthwashes and Chewing gums.
- Food & Supplements - Preservatives & Stabilizer
- Pharmaceuticals – Drug delivery, Vaccines and Gene transfer, Micro encapsulation
- Water treatment - Its ability to bind Metals and flocculating property helps in treatment of drinking water, Pools & Spas and various waste streams.
- Chromatography - Chitosan gels are used pack the chromatographic column.
- Other Industries - Bio Packaging, Bio plastics, Paper, Textiles

# Meron BioPolymers

A Division of Marine Hydrocolloids



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