

Natural based hydrogel

A nontoxic, biocompatible, biodegradable crosslinked polysaccharide. The intermediates formed by biodegradation are also not toxic. The crosslinking network and the properties (modulus, swelling) can be easily modified and optimized according to the requirements and applications.

Does not contain any synthetic polymer like polyacrylic acid or monomer like toxic acrylic acid (harmful if swallowed, in contact with skin or if inhaled, causes severe skin burns and eye damage, may cause respiratory irritation, very toxic to aquatic life).

Physical Properties	
Basis	Crosslinked polysaccharide
Appearance	Free flowing white granules/flakes
Solubility	Insoluble in water - swell to gel upon contact with aqueous solutions
pH value (1 g/l H ₂ O)	7.0
Minimum water absorption - under free swelling condition	>80 [ml/g]
Toxicology/Ecology	Nontoxic for plants and soil organisms, Biocompatible, Biodegradable
Possible applications	Food Animal feed Agriculture Wound care Drug delivery, pharmaceutical Technical products (cosmetic, pharmaceutical) Waste treatment Separation



Storage stability

The granules can be stored in closed packaging under dry conditions and ambient room temperatures.

Please contact us for any further information.

