



HydraLoq

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Biodegradable Superabsorbent

HydraLoq is AquaSol's next-generation, starch-based superabsorbent polymer (SAP) engineered to deliver rapid absorption, strong fluid retention, and stable gel formation using renewable, bio-based chemistry. Manufactured in the USA, HydraLoq provides a high-performance alternative to petroleum-derived SAPs while supporting sustainability goals across multiple industries.

HydraLoq is designed for use in personal care, medical, cosmetic, and industrial applications, offering dependable absorbency, clean handling, and environmentally responsible performance. Its starch-based formulation supports biodegradability, reduced environmental impact, and safe use in sensitive applications, without sacrificing functional performance.

HydraLoq delivers absorption without compromise, combining technical reliability with sustainable design, backed by AquaSol's decades of expertise in starch chemistry.

Key Benefits

- 100% Bio-Based Formulation
- Exceptional Absorption & Retention
- Biodegradable & Non-Toxic
- Multi-Industry Performance
- Made in the USA



Physical Properties	Typical Values	Method
Free Swell Capacity <i>DIH2O</i>	32 g/g	NWSP 240
Centrifuge Retention Capacity <i>D/H2O</i>	25 g/g	NWSP 241
Free Swell Capacity <i>0.9% Saline</i>	19 g/g	NWSP 240
Centrifuge Retention Capacity <i>0.9% Saline</i>	16 g/g	NWSP 241
Absorption Against Pressure 0.3psi	5 g/g	NWSP 242
Absorption Against Pressure 0.7psi	4 g/g	NWSP 242
Particle Size Distribution		
< 150 µm	44%	
150-300 µm	20%	NWSP 220
300-600 µm	21%	
> 600 µm	15%	

Characteristics

- Appearance Off-White Powder
- Moisture <12%
- pH 7-8

Applications

- Personal Care
- Medical Absorbent Products
- Industrial Fluid Management
- Freezer and Gel Packs

Environmental

- 100% Bio-Based
- Biodegradable Polymer
- Petrol Chemical Free
- Sustainable

Available Packaging

- 2000 – 2200lb Supersacks
- 450lb Drums
- 50lb Paper Sacks
- 25lb Pails