

## About Superabsorbent Polymer

Superabsorbent Polymer (SAP) is a material capable of absorbing several hundred to 1,000 times its own weight in water. Even when subject to pressure, this polymer securely retains the absorbed liquids. SAP is used in a wide range of applications, from hygiene materials used mainly in disposable diapers and sanitary products to non-hygienic applications such as agriculture & horticulture, pet, construction and civil engineering, etc.

## Mechanism of Water absorption

[China SUPERABSORBENT POLYMER for diaper supplier](#) Super Absorbent Polymers SAP are crosslinked networks of flexible polymer chains. The polymer chains are shrunk before absorbing water. When water comes into contact with polymer chains, these chains are expanded. Water is trapped tightly within networks.

## Advantage of WELLDONE Sodium polyacrylate Product



## Application of Super Absorbent Polymer

Fields	Uses
Hygiene products	Disposable diapers, Napkins
Food & Transportation	Ice pack
Convenience Goods	Goods Disposable hand-warmer, Air freshener
Pet	Dog Pads
Medical	Medical liquid solidifier
Inflation toy	Artificial snow, Water beads
Agriculture & Horticulture	Water holding agent for soil, Water gel for seedbed of rice crop