

STARCH

NANOPARTICLES

99.9%

(Purity)



Starch nanoparticles (SNPs) are defined as particles that have at least one dimension smaller than 1000 nm but are larger than a single molecule. Moreover, often more stringent size requirements are given in the literature, that is, that at least one dimension should not exceed 300 nm. Starch is a natural, renewable, and biodegradable polymer produced by many plants as a source of stored energy. It is the second most abundant biomass material in nature. It is found in plant roots, stalks, crop seeds, and staple crops such as rice, corn, wheat, tapioca, and potato. The starch industry extracts and refines starches by wet grinding, sieving, and drying. It is either used as extracted from the plant and is called "nativestarch", or it undergoes one or more chemical modifications to reach specific properties and is called "modified starch".

Stock no:

NS6130-12-001778

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	(C ₆ H ₁₀ O ₅) _n
APS	:	100nm
CAS	:	9005-25-8

Applications

- ✓ Starch is the most important energy source for humans. The body digests starch by metabolizing it into glucose, which passes into the bloodstream and circulates the body. Glucose fuels virtually every cell, tissue, and organ in the body. If there is excess glucose, the liver stores it as glycogen.
- ✓ Used in biodegradable matrixes.



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911