

Aerosil / Cabosil

Colloidal Silicon Dioxide – Glidant

Product Description

Colloidal Silicon Dioxide (Aerosil / Cabosil) is a glidant and anti-caking agent used to improve powder flowability in tablet and capsule manufacturing. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2811.22

CAS Number: 7631-86-9

Classification: Pharmaceutical Excipient — G

Parameter	Specification	Test Method
Appearance	Loose white fluffy powder	Visual
A s s a y (S i O ,)	"e 9 9 . 8 %	Gravimetric after ignition
Identification	Conforms to reference standard	IR
pH (4% dispersion)	3.7–4.7	USP <791>
Loss on Drying	"d 2 . 5 %	USP <731>
Loss on Ignition	"d 2 . 5 %	USP <281>
BET Surface Area (Aerosil 200)	175–225 m ² /g	BET nitrogen adsorption
Heavy Metals	"d 2 5 p p m	USP <231>

Physical Properties

Appearance: Loose white fluffy powder

M o l e c u l a r F o r m u l a : S i O ,

Molecular Weight: 60.09 g/mol

Solubility: Practically insoluble in water; soluble in hydrofluoric acid

Melting Point: 1610°C (amorphous)

Packing: 10 kg cartons / bags (low density); 25 kg bags available

Storage: Store in a cool, dry, well-ventilated area. Avoid moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, N95 dust mask, lab coat

Hazards:

- Fine dust may cause mild respiratory irritation
- Not classified as crystalline silica