



### Other names:

sodium lauryl sulfate (SLS or K12);  
sodium dodecyl sulfate (SDS);  
sodium dodecyl sulphate (SDS)

**CAS number:** 151-21-3

**Packing:** In 20 kg craft-paper bags.

Item	Standard					
	GB/T15963-2008					
Standard	White powder			White needle		
Appearance						
Active ingredient (% , ≥)	92	93	95	92	93	95
Petroleum ether soluble substances (% , ≤)	1.5	1.5	1.2	1.5	1.5	1.5
Inorganic salts (NaCl+Na <sub>2</sub> SO <sub>4</sub> ) (% , ≤)	5.5	4.5	2.5	4.5	3.5	2
Water (% , ≤)	2.5	2.5	2	3.5	3.5	3
pH (1% aq. solution)	7.5-9.5	7.5-9.5	8.0-9.5	7.5-9.5	7.5-9.5	7.5-9.5
Whiteness (WG, ≥)	90	90	90	90	90	90

Item	Toothpaste Grade	
	Powder	Needle (Grainy)
Sensory		
Appearance	White or light yellow	
Physicochemical		
Active ingredient (% , ≥)	95	95
Petroleum ether soluble substances (% , ≤)	1.5	1.5
Sodium sulfate (Na <sub>2</sub> SO <sub>4</sub> ) (% , ≤)	2.5	2.5
Sodium chloride (NaCl) (% , ≤)	0.1	0.1
Water (% , ≤)	2	3
pH (1% aq. solution)	8-9.5	7.5-10
Whiteness (WG, ≥)	90	90
Frothing Volume (mm, ≥)	135	135
Impurity		
Heavy metal (as Pb) (mg/kg, ≤)	15	15
Arsenic (As) (mg/kg, ≤)	2	2
Microbiological		
Total plate count (CFU/g, ≤)	100	100
Mycete and yeast (CFU/g, ≤)	100	100
Kind of coliform bacteria	Negative	Negative
Pseudomonas aeruginosa	Negative	Negative
Staphylococcus aureus	Negative	Negative

Item	High Purity		
	Chemical Grade	Analytical Reagent Grade	
Appearance	White or light yellow, powder or crystalline		
Active ingredient (% , ≥)	97	98	99
Petroleum ether soluble substances (% , ≤)	0.5	0.5	0.5
Sodium sulfate (Na <sub>2</sub> SO <sub>4</sub> ) (% , ≤)	1.5	1	0.5
Sodium chloride (NaCl) (% , ≤)	0.05	0.05	0.05
Water (% , ≤)	2	2	1
pH (1% aq. solution)	6.0-9.5	6.5-10.5	6.0-7.5
Whiteness (WG, ≥)	90	90	90
Fraction content (% , GC, ≥)	-	-	99.5
Phosphorus (P) (ppm, ≤)	-	-	1
Pb (ppm, ≤)	-	-	2
Fe (ppm, ≤)	-	-	1
N (ppm, ≤)	-	-	5
As (ppm, ≤)	-	-	0.1
Absorbance (3% aq. solution)	230nm, ≤	-	0.4
	260nm, ≤	-	0.1
	280nm, ≤	-	0.1
	410nm, ≤	-	0.01
Solubility	10% aq. solution, ≤	-	Completely dissolved
	1% ethanol, ≤	-	Completely dissolved
APHA	20% aq. solution, ≤	-	15