



Specialized in chemicals

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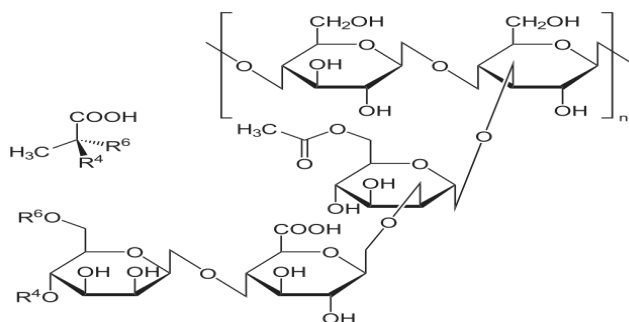
Technical Data Sheet

Xanthan gum

Product Information

Chemical Name	Xanthan gum
CAS #	11138-66-2
Formula	(C ₃₅ H ₄₉ O ₂₉) _n
Molecular Weight	> 10,000,000
Synonyms	Corn sugar gum; Xanthan; Gum xanthan; Polysaccharide gum

Chemical Structure



Description

Xanthan gum is a high molecular polysaccharide. It is produced from the fermentation of carbohydrate with *Xanthomonas campestris*. It is soluble in water, but not in organic solvent.

Properties

Appearance: white to light yellow powder

PH: 6 - 8 (1% aq sol.)

Solubility in water: Soluble, can be dissolved in cold water and hot water, high viscosity characteristics.

Chemical properties: With strong antioxidant and anti-enzyme effect. The existences of biological activity of enzymes under the conditions still play a role, though in the sodium hypochlorite, hydrogen peroxide

Specification

Xanthan gum- Industrial grade

Item	Technology	Results
Viscosity 1% solution in in 1% Kcl / cp	≥600	1340

Loss on drying %	≤15	10.02
Ash %	≤16	5.45
Shear ratio	≥6.50	7.4

Xanthan gum-Oil drilling grade,(specially)

Item	Technology	Results
Viscosity 1% solution in 1% Kcl / cp	≥600	1340
Loss on drying %	≤15	10.02
Ash %	≤16	5.45
Shear ratio	≥6.50	7.4
Ph Value	5.0-8.5	7.55
Pyruvic Acid(%)	>1.5	>1.5
Total Nitrogen	<1.5	<1.5

Halotolerancy (Fann 35SA)

600rpm	>75	85
300rpm	>55	62
200rpm	>45	53
100rpm	>35	41
6rpm	>15	18
3rpm	>12.5	15

Xanthan gum Food grade

Items	Technology	Results
Viscosity 1% solution in 1% Kcl	≥1200	1460
PH1% solution	6.0-8.0	6.80
Loss on drying %	≤13	10.42
Ash %	≤13	7.34
Particle on size	Min93% 200 mesh	confirm
Shear ratio	≥6.0	7.50
V1/V2	1.02-1.45	1.02
Pyruvic acid %	≥1.5	confirm
Nitrogen %	≤1.5	0.70
Heavy metal mg/kg	≤20	confirm
Lead mg/kg	≤5.0	confirm
Arsenic mg/kg	≤3.0	confirm

Microbiological

Total plant count cfu/g	≤2000	1000
Yeast/mould cfu/g	≤100	confirm
E.coli	Absent/25g	confirm
Salmonella	Absent/25g	confirm

Safety

Xanthan gum is a common goods on transportation.
Always refer to the Material Safety Data Sheet (MSDS)

Applications

Xanthan gum is widely used in oil, ceramics, textiles, printing and dyeing, pharmaceutical, paper, paint, etc. on more than 20 industries have applied.

Packaging

25kg in bag

Storage & Handling

Placed in a cool dry place with closed container. Shelf life is 36 months (the best use of 18 months).

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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