

# PRODUCT DATA SHEET

# GELLAN GUM FP

Gellan gum is a fermentation-derived hydrocolloid produced by the microorganism *Pseudomonas elodea* (ATCC 31461). The product Gellan Gum FP from DSM Zhongken is a special type gellan gum recommended for use as a gelling agent in a wide variety of applications including fruit preparations (YFP) and jam etc. Gellan Gum FP can be used in YFP to replace part or all of the conventional stabilizers such as modified starch and pectin. Gellan Gum FP is a cost-effective texturizing agent for YFP compared to starch and pectin, delivering cost savings while providing excellent YFP attributes such as even fruit distribution, syneresis control, easy stir-in, great flavor release and pleasant mouthfeel. Gellan Gum FP can be used in combination with other hydrocolloids to give different textures and mouthfeel. Typical use levels of Gellan Gum FP range from 0.03% to 0.12%.

## FP Features and Benefits

Key feature	Benefits
High gel set temperature	Tolerate high fill temperatures; good suspension before filling and even fruit distribution
Gels at low dosages	Low formulation cost, excellent flavor release; syneresis control
Thixotropy rheological properties	Easy stir in and pleasant mouthfeel

## Dispersion

To disperse the product without lumps:

- Premix the powder with other dry ingredients, and add the dry mix slowly into the liquid under sufficient stirring to obtain a complete dispersion;
- Or disperse the product in a non-solvent medium such as oil or alcohol before adding to water.

## Hydration

Gellan Gum FP can be fully hydrated by heating to 90-95°C.

## Regulation

This product conforms many legislative standards. However, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the product is to be consumed.

## Quality Assurance

Zhejiang DSM Zhongken Biotechnology is certified with ISO 9001 and FSSC 22000. It is also approved for Kosher and Halal.

## Packaging, Storage and Shelf Life

The product is packed in 25 kg/carton with a PE inner bag. Store product in ambient temperature and away from direct sunlight. The product, when stored in these conditions and in its original unopened packaging, will maintain its initial properties for 24 months.

## Specifications

(Testing done on every lot)

Property	Requirement
Appearance	Off-white powder
Purity (gellan gum content)	85-108%
Gel strength (0.6%)	400-700 g/cm <sup>2</sup>
Particle size (Pass 60 mesh with 280 µm aperture)	≥96%
Loss on drying	≤15%
Ash	≤15%
pH value	4.5-7.0
Total bacterial count	≤10000 cfu/g
Mold & yeast	≤400 cfu/g
Coliform	≤30 MPN/100g

## Other Specifications

(Periodic inspection)

Property	Requirement
Salmonella	Negative in 25g
E. coli	Negative in 25g
Lead	≤2 mg/kg
Heavy metals	≤20 mg/kg
Total arsenic	≤3 mg/kg
Mercury	≤1 mg/kg
Cadmium	≤1 mg/kg
Nitrogen	≤3 g/100g

## DSM Hydrocolloids

For further information, please see:

[www.dsm.com](http://www.dsm.com)

[www.dsm.com/hydrocolloids](http://www.dsm.com/hydrocolloids)

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