

## Technical Data Sheet

### Kappa Refined Carrageenan

#### 1. Introduction:

Product	CAS#	LEAGAL BASIS
Kappa Refined Carrageenan	9000-07-1	E407 /JECFA

Carrageenan is obtained by aqueous extraction of natural strains of seaweeds of Gigartinaceae, Solieriaceae, Hypneaceae and Furcellariaceae, families of the class Rhodophyceae (red seaweeds). No organic precipitant shall be used other than methanol, ethanol and propane-2-ol. Carrageenan consists chiefly of the potassium, sodium, magnesium and calcium salts of polysaccharide sulphate esters which, on hydrolysis, yield galactose and 3,6-anhydrogalactose. Carrageenan shall not be hydrolysed or otherwise chemically degraded. Through scientific extraction, it has been widely used in food, medicine, personal care chemicals and so on.

#### 2. Application:

Dairy products, Jelly, soft candies, meat products, beverage, capsule etc.

Usage:

- (1) Blend with other gums or directly used in the production process of end-products;
- (2) It's suggested to mix with other ingredients, such as sugar, then disperse into cold water, to avoid agglomerate;
- (3) Usage amount depends on the actual demand in production process;

#### 3. Specifications:

Item	Specification
Appearance	Tan to yellowish
Particle Size (Mesh)	80 mesh
Total Sulfate (%)	15-40
Viscosity(cps)	≥5
Total Ash Content (%)	15-40
Moisture (%)	≤12
Gel Strength (1.5%w/w,0.2% KCL, g/cm <sup>2</sup> , 20℃)	≥1100
Transparency (T%)	≥70
Acid-insoluble ash (%)	≤1.0
pH	8-11
(As)	≤3 mg/kg
(Pb)	≤5 mg/kg
(Hg)	≤1 mg/kg
(Cd)	≤2 mg/kg
Total Plate Count	≤5000 cfu/g
Yeast and Molds	≤300 cfu/g
Salmonella	Negative in 10g
E.coli	Negative in 5g

Shelf life: 18 months



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### 4. Package:

Outer: kraft paper bag; Inner: PE bag, food grade