



KENNEY & ROSS LIMITED

R.R. # 3 SHELBURNE, NOVA SCOTIA CANADA B0T 1W0
PHONE: (902) 637-2616 FAX: (902) 637-2511

High Molecular Weight (HMW) Fish Gelatin Food/Pharmaceutical Grade

HMW Fish Gelatin is manufactured by the hydrolysis of collagen which is a principal protein found in skin and bones. Animal gelatin is typically extracted from bovine or porcine skin while HMW Fish Gelatin is produced from the skin of deep water fish such as cod, haddock and pollock. This allows it to have many of the same characteristics of animal gelatin. Since the gelatin is manufactured only from the skins of food grade kosher fish, it is able to meet strict kosher standards.

HMW Fish Gelatin is a Type A gelatin and is supplied as a dry granular product. This gelatin is extracted differently than the standard Fish Gelatin and is lighter in color with a higher average molecular weight. The higher molecular weight will provide a higher viscosity and a tougher film than our standard gelatin. Neither product has bloom strength as the gel point is lower than animal gelatin. This makes it suitable for frozen or refrigerated products or for use as a dry coating. The lower gel point allows Fish Gelatin to dissolve faster and easier than animal gelatin, so it can be readily added to products that are to be chilled.

TYPICAL PROPERTIES OF HMW FISH GELATIN

| | |
|------------------------------|---------------------|
| Appearance | Granular |
| Odor as Supplied | None |
| Color in Solution | Pale Yellow - Clear |
| pH of 10% Solution | 4.0-7.0 |
| Solids | 85% min. |
| Weight Loss on Drying | 15% max. |
| Visc. of 10% Solution @ 30°C | 25-35 cSt |
| Bloom | 0 g |
| Total Ash | 2.0% max. |
| Heavy Metals | <10 ppm |
| Arsenic | < 0.8 ppm |



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| | |
|-------------------------|--------------|
| Chromium | <10 ppm |
| Lead | <1.5 ppm |
| Sulfur Dioxide | <50 ppm |
| Hydrogen Peroxide | <0 ppm |
| Aerobic Bacterial Count | <1000/g |
| Enterobacteria | Test neg/g |
| Salmonella | Test neg/25g |
| Escherichia Coli | Test neg/25g |
| Yeast and Mold Count | <100/g |
| Preservatives | No |
| Kosher Certification | OU |