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April 2020

Selected standards in the series Food

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Avril 2020

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Food

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Bread, Fruit and Raisin (ICS 67.060)

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32.11-88 Pancake and Waffle Mixes (ICS 67.060)

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GCS

Produits alimentaires

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KONK

Canned Fish





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Language

In this standard, "shall" states a mandatory requirement, "should" expresses a recommendation and "may" is used to express an option or that which is permissible within the limits of this standard. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

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Canned Fish

ICS 67.120.30

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Acknowledgment is made for the French translation of this Canadian General Standards Board specification by the Translation Bureau of the Department of the Secretary of State.

Preface

This document has been converted to a Government of Canada (GC) Standard in November 2014. Its previous designation was 32.143M. The original content has not been modified.

CANADIAN GENERAL STANDARDS BOARD

CANNED FISH

1. SCOPE

- 1.1 This specification applies to canned fish including shellfish (molluscs and crustaceans). It is intended to be used by food services in the procurement of food.
- 1.2 This specification does not cover detailed requirements on sampling, examination or lot acceptance, nor does it cover definitions of defects, since they are given in detail in the applicable inspection and product standards manuals by the Department of Fisheries and Oceans (par. 2.1.1).
- 1.3 The testing and evaluation of a product against this specification may require the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this specification has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any existing applicable regulatory requirements prior to its use.

2. APPLICABLE PUBLICATIONS

- 2.1 The following publications are applicable to this specification:
- 2.1.1 Department of Consumer and Corporate Affairs Consumer Packaging and Labelling Regulations Weights and Measures Regulations.
- 2.1.2 Department of Fisheries and Oceans
 Fish Inspection Act and Regulations
 Fish Inspection Policies and Procedures Manual
 Chemical Methods Manual
 Fish Products Standards and Methods Manual
 Standard Procedures for Bacteriological Analysis
 Metal Container Defects Identification and Classification Manual.
- 2.1.3 Department of National Health and Welfare
 Food and Drugs Act and Regulations
 Recommended Canadian Code of Practice for Low-Acid and Acidified Low-Acid Canned Foods.
- 2.2 Reference to the above publications is to the latest issues. The sources for these publications are shown in the Notes section.

3. **DEFINITIONS**

For the purposes of this specification the following definitions shall apply (see also par. 1.2):

- 3.1 **Fish** Any fish, including shellfish (molluscs and crustaceans) and marine animals and any parts, products or by-products thereof.
- 3.2 Canned Fish Commercially sterile fish in hermetically sealed containers.
- 3.3 Commercial Sterility of Foods The condition achieved by the application of heat, alone or in combination with other treatments, to render a food free from viable forms of microorganisms, including spores, capable of growing in the food at the normal temperatures at which the food is designed to be held during distribution and storage.
- 3.4 Hermetically Sealed Container Container designed and intended to be secure against the entry of microorganisms.
- 3.5 **Decomposed Fish** Fish that has an offensive or objectionable odour, flavour, colour, texture or substance associated with spoilage.
- 3.6 **Tainted Fish** Fish that is rancid or has an abnormal odour or flavour.
- 3.7 Unwholesome Fish Fish that has in or upon it bacteria of public health significance or substances toxic or aesthetically offensive to man.
- 3.8 Salad Pack Packed fish that contains flakes or broken pieces of fish meat, but not minced fish meat.
- 3.9 Solid Pack Packed fish that is cut into transverse segments to which no free fragments are added. Depending on the fish and container size, such segments may be cut to several layers that are at least 2.5 cm thick. The segments are placed in the can with the planes of their transverse cut ends parallel to the ends of the can. A piece of a segment may be added if necessary, to fill a container
- 3.10 Chunk or chunks A mixture of pieces of fish, most of which have dimensions of not less than 1.2 cm in each direction and in which the original muscle structure is retained.
- 3.11 Flake, flaked or flakes A mixture of particles of fish in which the muscle structure of the flesh is retained.
- 3.12 Grated, Shredded or Minced A mixture of particles of fish that have been reduced to a uniform size, in which particles are discrete and do not comprise a paste.
- 3.13 Chicken Haddie Canned haddock, cod, cusk or hake or any combination thereof that has not been ground, but does not include dark or sow hake.

4. CLASSIFICATION

4.1 Canned fish shall be prepared from the type of fish in the ways specified according to Table 1. See Options, par. 9.1.

TABLE 1

Ways of Processing Canned Fish

Type of Canned Fish	Whole or Solid Pack	Chopped or Chunk	Flaked or Grated	Salad Pack	Skinless and Boneless	Skin on and Bone in
Clams	(4)(5)(6)(7)					
Crab meat	(5)(10)			(5)		
Herring	(2)(6)				х	х
Lobster	(1)(3)(4)					
Mackerel	(2)(4)				X	х
Mussels	(4)(8)(6)	(4)(8)				
Oysters	(4)(6)(7)					
Atlantic Salmon(*)	(1)(2)					х
Pacific Salmon(*):	(1)(2)					x
Coho Blueback Keta, Pink Spring (Chimook, King) Sockeye (Red) Steelhead			S			
Sardines	(4)(7)(8)					х
Canadian Sardines	(4)(7)(8)					х
Capelin	(4)(7)(8)					х
Tuna Light White	(3)(4)(7)(9) (3)(4)(7)(9)	(3)(4)(7)(9) (3)(4)(7)(9)	(3)(4)(7)(9) (3)(4)(7)(9)			
Shrimps Chicken Haddie	(5)	(5)	(2)	(5)		

Notes: Available packed:

(1) dry (no salt added)

(2) dry with salt

(3) in water (no salt added)

(4) in brine (water and salt)

(5) in water, salt and citric acid or lemon juice

(6) unsmoked or smoked

(7) in oil and salt

(8) in sauce (lemon, vinegar, tomato, mustard, tabasco, etc.)

(9) in vegetable broth or in broth and oil

(10) with leg meat on one or both ends of the can (single or twin face leg pack), the remaining portion consisting of flaked or salad crab meat

(X) available

(*) Grade B canned salmon is not acceptable.

5. GENERAL REQUIREMENTS

- 5.1 Canned fish shall be prepared and packaged in an establishment registered with the Department of Fisheries and Oceans pursuant to the Fish Inspection Regulations and/or shall meet the requirements for export and interprovincial trade or import as specified in those regulations.
- 5.2 Canned fish shall comply fully with the acts and regulations given in par. 2.1.1, 2.1.2 and 2.1.3. It shall not be decomposed, tainted or unwholesome and it shall be free from foreign material. Canned fish intended to include bones shall be processed until the bones are soft.
- 5.3 The metal containers shall be properly sealed, in good merchantable condition, free from rust, corrosion or any defects that may adversely affect their hermetic seal when examined as described in the Metal Container Defects Identification and Classification Manual.
- 5.4 The colour, texture, odour and flavour shall be characteristic of the particular fish.

6. DETAILED REQUIREMENTS

- 6.1 The detailed requirements on processing, packing inspection and testing shall be as given in the regulations, manuals and codes of practice referred to in par. 2.1.2 and 2.1.3. Canned fish shall meet the defect tolerances specified in the applicable Fish Products Standards (par. 2.1.2).
- 6.2 Canned Herring Canned herring shall be canned fish of the species Clupea harengus and Clupea pallasii.
- 6.3 **Canned Crab Meat** Canned crab meat shall be prepared from species of the suborder *Branchyura* of the order *Decapoda* and from all species of the family *Lithodidae*. It shall be prepared from the leg, claw, body and shoulder meat from which the shell has been removed. It shall be canned and may be packed with or without packing medium.
- 6.4 **Canned Sardines** Canned sardines shall be sardines and sardine type fish packed in water, oil, sauce or other suitable packing medium. They shall be canned and be prepared from small fish of any of the following species:

Sardina pilchardus (Walbaum)

Sardinops melanosticta, neopilchardus, ocellata, sagax, or caerulea

Sardinella aurita, anchovia, brasiliensis, or maderensis

Clupea antipodium, bassensis, or fuegensis

Sprattus sprattus (Clupea sprattus)

Hyperlophus vittatus

Nematalosa vlaminghi

Etrumeus microps

Ethmidium maculatus

Engraulis anchoita

Engraulis ringens.

- 6.5 **Canadian Sardines** Canadian sardines shall be prepared and canned as given in par. 6.4 from small herring, *Clupea harengus.*
- 6.6 **Canned Tuna** Canned tuna shall be flesh of tuna packed in oil, water, vegetable broth or other suitable packaging medium and be canned. It shall be prepared from white albacore or light tuna species as specified (par. 9.1).
- 6.7 **Canned clams** Canned clams shall be whole clams that may have been smoked and packed in pickle or other suitable packing medium. Canned clams shall be prepared from any of the following species:

Mya arenaria

Spisula salidissima

Ensis directus

Mercinaria mercinoria

Artica Islandica

Venus mercenaria

or other species commonly associated with the clam family. If specified (par. 9.1), baby or small size clams shall be supplied.

6.8

Canned Pacific Salmon — Canned pacific salmon shall be canned flesh of any of the species of fish listed below. It shall be designated by the appropriate common name below:

Scientific name	Common name
Oncorhynchus nerka	Sockeye Salmon Red Sockeye Salmon Red Salmon
Oncorhynchus tshawytscha	Spring Salmon King Salmon Chinook Salmon
Oncorhynchus kisutch	Coho Salmon Medium Red Coho Salmon
Oncorhynchus gorbuscha	Pink Salmon
Oncorhynchus keta	Chum Salmon Keta Salmon
Salmo gairdnerii	Steelhead Salmon Deep Sea Trout

Canned salmon of the species Oncorhynchus tschawytscha may be designated as "red", "pink" or "white" in accordance with the Fish Inspection Regulations.

Immature coho salmon (Oncorhynchus kisutch) may be designated "Blueback Salmon" if it meets the colour standard specified in the Fish Inspection Regulations.

Cans of minced salmon containing mixed species shall be designated "Minced Salmon."

6.9 Canned Salmon or Canned Atlantic Salmon — This canned salmon shall be canned flesh or Salmo salar.

7. PREPARATION FOR DELIVERY

7.1 Unless otherwise specified (par. 9.1), preparation for delivery (packing, packaging, labelling and marking) shall conform to normal commercial practice. The mass of the can content shall be as specified (par. 9.1); see Appendix A for some common sizes. If so specified (par. 9.1), hermetically sealed flexible pouches may be used for packaging instead of cans.

8. TESTING

8.1 Sampling and testing shall be performed as given in the applicable inspection and product standards manuals of the Department of Fisheries and Oceans (par. 2.1.2). Defect definitions and lot acceptance criteria shall be as given in those manuals.

9. NOTES

9.1 **Options** — The following options must be specified in the application of this specification:

a. Type and species of canned fish (Table 1)

- b. How the fish shall be processed and presented (Table 1)
- c. Whether canned tuna shall be white albacore or light tuna (par. 6.6)
- d. If baby or small size clams are desired (par. 6.7)

- e. Preparation for delivery, if other than normal commercial practice (par. 7.1)
- f. Net or drained content mass of the can (par. 7.1, some common sizes given in Appendix A)
- g. If flexible pouches are acceptable instead of cans (par. 7.1).

9.2 Source of Referenced Publications

- 9.2.1 The acts and regulations referred to in par. 2.1.1, 2.1.2 and 2.1.3 may be obtained from the Canadian General Standards Board, Sales Unit, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 956-0426. Fax (819) 956-5644.
- 9.2.2 The standard procedures and manuals referred to in par. 2.1.2 may be obtained from the Department of Fisheries and Oceans, Inspection Services Directorate, 200 Kent Street, Ottawa, Ontario K1A 0E6.
- 9.2.3 The code of practice referred to in par. 2.1.3 may be obtained from the Department of National Health and Welfare, Health Protection Branch, Food Directorate, Ottawa, Ontario K1A 0L2.

APPENDIX A

	DOMI	ESTIC	IMPORTED		
PRODUCT	Net mass, g	Drained mass, g	Net mass, g	Drained mass, g	
Clams		113	283	142	
Crabmeat	198	142		113	
Herring	100, 200, 400		500	300	
Lobster		71, 142, 283			
Mackerel	198, 425		425	300	
Mussels			104		
Oysters			104	142	
Sardines	100, 125, 400		100		
Salmon	213, 440, 1810				
Tuna	92, 184, 248 368, 1700, 1890	65, 133	185, 200		
Shrimp				113	
Chicken Haddie	198, 397				

Some Common Container Sizes of Canned Fish and Shellfish

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Notes

