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## SOLIDS FILLING AND PACKAGING



Solid food is either in the form of a large piece (eg butter, whole fruit, fish etc) or particles that can 'flow' like liquid (eg small fruits and vegetables, diced or sliced foods, powders). In general, large pieces are best packed by hand whereas particulate foods can often be filled using similar fillers to those used for liquids.

There is a wide range of packaging materials available to suit the properties of different foods and the expected shelf life. However, the cost of these materials may be very high and thus uneconomic for a small-scale producer. In other cases the packaging may simply not be available. The choice of packaging may therefore be a compromise between what is required and what is available/affordable, the penalty being a reduction in shelf life of the food.

Different foods require different degrees of protection against:

Pilferage, tampering or adulteration

Mechanical forces (impact, vibration, compression or abrasion)
Climatic influences that cause physical or chemical changes (light, moisture, air, temperature changes)
Contamination (by micro-organisms, insects or soils)

All solid foods can be packaged to keep items together (in boxes, baskets etc) but these rarely offer protection to the food apart from resistance to crushing. In Table 1



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SPICO କରି ଅନୁକ୍ରିଆ ped to show which factors should be protected against and suitable types of packaging materials.



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Protection needed against										
Food N	oisture loss	Moisture Uptake	Air Light	Heat Micro-		organisms	Mechanical damage	Odour	Odour pickup	Types of packaging
Frozen foods Fish Vegetables Pastry					*			*	*	plastic film, pots plastic film, pots plastic film, pots
Chilled foods Fresh foods Fresh foods Fruit Vegetables Meat Cooked or cured meats Dairy products Milk Butter				:			:		:	plastic film, paper plastic film, paper plastic film, paper plastic film, paper glass, plastic paper, plastic film, foil
Cheese Dried foods			**				•		*	pots, glass glass, plastic bottles
Squashes *			**				8		3	glass, plastic bottles
Baked foods Bread Pies Cakes Biscuits	•			*				*	*	plastic film plastic film paper, plastic film paper, plastic film
Sugar confectionery and preserves Chocolate Hard-boiled sweets Jams			**		•					glass, foil, plastic film glass, foil, plastic film glass, foil, plastic film
Carbonated beverages *			**							glass, plastic bottles
Sterilised foods * Pasteurised foods *			**		•		•		*	glass, metal cans glass, metal cans

Table 1: Packaging requirements of selected foods