

MATERIALS USED IN THE CONSTRUCTION OF FOOD PROCESSING EQUIPMENT

The following table is designed to provide some basic guidance as to the types of materials that you might see processing equipment made from in specific food industries. While it would be ideal to have all equipment manufactured to meet sanitary design criteria realistically most non-potentially hazardous foods can be and are made using equipment that falls far short of these standards.

As a rule of thumb we would encourage newly constructed equipment to approach this ideal standard whenever possible. In some cases what appears to be a less sanitary material turns out to be a better alternative than what we might think to recommend. Case in point would be the use of plastic pipe in the vinegar or distilled water industries. These foods would react with stainless steel to cause corrosion of the piping and contamination of the products. **If you have any concerns please document your findings with photos & detailed written narrative and present it to your area Food & Dairy Specialist.**

TYPE OF FOOD PROCESS		<u>MINIMUM EQUIPMENT DESIGN EXPECTATIONS</u>	
All Potentially Hazardous Foods		To Meet Sanitary Design Criteria Already Established in ATCP 70.06 (1-4)	
Bakery/Pasta Products		Stainless, Aluminum, Equipment, Mild Steel in Dough Handling & Baking Pans	
Soda Beverage Mfg.		Stainless, Food Grade Plastic, Mild Steel in Filler Areas	
Vinegar Processing		Food Grade Plastics, Fiberglass Tanks	
Malting/Brewing Operations		Stainless, Copper Kettles	
Liquid Smoke Mfg.		Stainless, Mild Steel, Food Grade Plastics	
Canning/Freezing Industry		Stainless, Mild Steel, Aluminum	Frozen Veg. Processing is expected to be performed in equipment that meets sanitary design criteria because of the lack of an adequate thermal processing step.
Maple Syrup Processing		Stainless, Plastic, Galv. Steel, Solder (Lead Free Solder)	
Honey Processing		Stainless Steel, Wood Frames, Solder (Lead Free Solder)	
Juice Processing	Pre-Pasteurization	Stainless steel, food grade plastics, smooth welds	Mild steel, cloth filters, continuous welds but not ground & polished
Confectionary Processing		Stainless, Hard Maple, Copper Kettle	
Fried Snack Food Processing		Stainless	
Gelatin Mfg.		Mild Steel, Diatomaceous Earth Filtration	
Vegetable Oil Mfg.		Food Grade Plastic, Stainless, Mild Steel	
Bottled Water Mfg.		CPVC Plastics, Stainless	
Condiment Mfg.		Stainless, Food Grade Plastics	
Spice Mfg.		Stainless, Spot Welds, Mild Steel, Food Grade Plastics	