

## **Cooking By Thickness Rulers**

## Presented by AmazingFoodMadeEasy.com

These rulers will let you know how long it takes to heat up, cool down, or pasteurize various pieces of meat. The times are to be used as a guide and are not exact because different pieces of meat heat differently, even if they are the same cut, which can affect the amount of time it takes to heat or pasteurize them. I've tried to list times at the upper edge of the range so that following them will always result in success, though they might actually be heated or pasteurized before the time listed.

Many doctors suggest that people with weak immune systems, such as elderly, pregnant or sick people should not eat un-pasteurized food.

The Heating and Cooling Times specify how long it takes a piece of meat, with a particular shape, to heat all the way to the center. The center of the meat will come up to about 1° less than the water bath temperature in the time given. The final degree takes a much longer time and generally does not contribute to the final taste or texture of the food.

The temperature of the water bath does not affect the heating time, but remember that you should not cook food at less than 55°C for more than 4 hours. If you want to cook a piece of food at a lower temperature, you can cut it into smaller portions so it heats more quickly. The times shown are also minimum times and food can be, and sometimes needs to be, left in for longer periods in order to fully tenderize the meat.

The "Heating Beef, Lamb, Pork" section shows times both for frozen and refrigerated foods. These times generally do not vary much as the water bath temperature changes. These times usually apply to all types of meats except fish, though chicken and poultry is almost always cooked to pasteurization and has been left off for clarity. If you have some other type of meat (moose, bear, rabbit, etc.) you can use these heating charts as long as you remember it is not pasteurizing the meat.

If you are cooking food and then storing it in the refrigerator or freezer, the "Cooling Most Meat" section gives the times that food needs to be in an ice bath before the center is chilled out of the danger zone. Make sure the ice bath is at least one half ice.

The "Fatty Fish" column gives the heating times for fatty fish. Remember that these times will not pasteurize the fish.

The Pasteurization Times let you know how long you need to cook something for it to be effectively pasteurized and safe to eat. Like the Heating and Cooling times, they are not exact, but are also on the longer side for safety reasons.

## A Few Notes on the Times

These times were extrapolated from the descriptions in Baldwin's Practical Guide to Sous Vide as well as Nathan's tables on eGullet and a few other sources. Credit goes to them for researching and determining how food heats in a water bath.

	For more times, see AFMEasy.com/SVThick		<u>20 mm 0:50 0:30 1:15 0:45 0:20 0:50</u>		40 mm 2:30 1:15 3:30 2:00 1:00 2:15				Heating Beef, Lamb, Pork Cooling Most Meat Starting Temp: Fridge Fridge Freezer Freezer Hot Hot Shape of Meat: Slab Cylinder Slab Cylinder Slab	Amazing Food Heating and Cooling Times	Once it is cut out, simply hold the card up to the thickest point of the food you are preparing to cook and follow the time listed in the column you want.	Once printed to the proper size, cut out the cards by following the dotted lines. Try to make the bottom as level as possible to ensure accurate measurements. I like to align a hard edge or ruler along the line and draw a knife along it, just make sure you do it on a cutting board!	off once it is printing. This can be usually be corrected in y preview box.	After you print it, double check that the lines on the ruler are accurate, some PDF viewers try to scale the image which can result in the lines	To use, first print out this page. I prefer printing it onto thick card stock so it's more rigid but any paper will work.	How to Use This Ruler	Amaz	
		0:06	0:23	0:50	1:25	2:00	2:50 6	3:45 7	Fatty Fish Fridge Slab Tempera	<u>م</u>	ugh to	Also, cooking bas meat to ensure it into account tend not tenderize the the times listed t	Remember, these are longer if you aren't in	minute	or example, if Heating and C ook it for an h			
	For more times, see AFMEasy.com/SVThick	10 mm	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm	Water Bath emperature:	mazing Pasteurization Times		sed on t is safe derizing e meat i they we		was	war ng Tr and was		Constant of the second	
		2:00	2:30	3:00	3:30	4:30	5:15	6:30	Beef, 55°C 5			kness d com le or a ly way need	ıe minimum hurry.	nt to heat a pie imes" card up forty minutes frozen.				
		1:15	1:45	2:00	2:30	3:15	4:15	5:15	Lamb, 7°C		Ils you the minimum ti up to temperature in t y other factors and the So even though tough o be cooked much longe	times	ece o to th if it					
		0:40	1:10	1:35	2:00	2:30	3:15	4:00	Pork 60°C			the min temperat factors n though	needed, you can cook it for an hou		of beef tend he beef. If was in th			
		1:45	2:00	2:45	3:15	4:15	5:00	6:00	Chic 58°C			a the minimum time you can cook a temperature in the middle. It does r factors and the times on these rul n though tough cuts would be safe		i beer tenderioin you would hold th he beef. If it is 30mm thick you wou was in the refrigerator or two hour				
		1:00	1:25	2:00	2:35	3:15	4:15	5:00	cken and 1 60°C		101		cook it f	Tator or	in you would hol 30mm thick you rigerator or two h			
		0:30	0:50	1:30	2:00	2:30	3:15	4:15	Chicken and Poultry Bre C 60°C 63°C	es			or an hou	two houi	of beef tenderloin you would hold th the beef. If it is 30mm thick you wou t was in the refrigerator or two hour			

