

DILUTION CHART

Some numbers are rounded up or down to make measuring easier

PIC's dilution ratios are written as parts. Therefore, when PIC's label suggest a dilution ratio of 1-to-4 (1:4) that means 1 part product and 4 parts water. Some people calculate dilution by dividing by 4 (in this example), which is an incorrect answer. If you use 4 then you will actually be putting more chemical into your mixture than what PIC recommends. This chart will calculate the amount of product PIC recommends for several different container sizes.

When calculating dilution, you should divide the total ounces (or gallons) you are making by the sum of the two numbers in the dilution ratio.

For example: You want to make a 5 gallon solution to use in a mop bucket. You want it diluted 1-10 because that's what the instructions indicate for your particular use. To calculate how much product to put into the mop bucket you take 5 gallons and divide it by the total number of parts, which is 11 (1 part product + 10 parts water). This gives you .45 gallons. To get the number of ounces you multiply this times 128, which equals 58.18 ounces. Therefore, you should measure approximately 58 ounces of product to put into your 5 gallon mop bucket, then fill with water. This will give you 5 gallons of RTU (Ready to Use) solution. (If you want to reduce foaming when mixing, see helpful hint at the bottom.

To calculate a dilution ratio that is not listed, divide the number of ounces you are wanting to make by the sum of the two numbers in the ratio. For example, you want to make a quart bottle diluted at 1-to-5. Divide 32 ounces by 6 (1 part product + 5 parts water). The amount of chemical to put in the quart bottle is 5.3 ounces.

PIC also sells a proportioner, which is connected to a garden hose and does the measuring for you. Just push a button to dispense your end use solution. This works the best when your dilution ratio does not change. Under "Our Products", see "Equipment & Supplies" and expand Proportioners & Foamers.

QUARTS		
To make a quart of solution, use the following table:		
Dilution Ratio	Add this amount Concentrate....	Add water to Make 1 quart.
1 – to – 4	6-½ oz	“ “ “
1 – to – 10	3 oz	“ “ “
1 – to – 12	2-½ oz	“ “ “
1 – to – 15	2 oz	“ “ “
1 – to – 20	1-½ oz	“ “ “
1 – to – 32	1 oz	“ “ “
1 – to – 40	4/5 oz	“ “ “
1 – to – 50	3/4 oz	“ “ “
1 – to – 64	1/2 oz	“ “ “
1 – to – 128	1/4 oz	“ “ “
1 – to – 256	1/8 oz	“ “ “

ONE GALLON

To make a gallon of solution, use the following table:

Dilution Ratio	Add this amount Concentrate....	Add water to Make 1 gallon.
1 – to – 4	25-½ oz	“ “ “
1 – to – 10	11-½ oz	“ “ “
1 – to – 12	10 oz	“ “ “
1 – to – 15	8 oz	“ “ “
1 – to – 20	6 oz	“ “ “
1 – to – 32	4 oz	“ “ “
1 – to – 40	3 oz	“ “ “
1 – to – 50	2-½ oz	“ “ “
1 – to – 64	2 oz	“ “ “
1 – to – 128	1 oz	“ “ “
1 – to – 256	½ oz	“ “ “

FIVE GALLONS

To make five gallons of solution, use the following table:

Dilution Ratio	Add this amount Concentrate....	Add water to Make 5 gallons.
1 – to – 4	128 oz (1 Gal)	“ “ “
1 – to – 10	58 oz	“ “ “
1 – to – 12	50 oz	“ “ “
1 – to – 15	40 oz	“ “ “
1 – to – 20	31 oz	“ “ “
1 – to – 32	20 oz	“ “ “
1 – to – 40	16 oz	“ “ “
1 – to – 50	13 oz	“ “ “
1 – to – 64	10 oz	“ “ “
1 – to – 128	5 oz	“ “ “
1 – to – 256	3 oz	“ “ “

30 GALLONS

To make 30 gallons of solution, use the following table:

Dilution Ratio	Add this amount Concentrate....	Add water to Make 30 gallons.
1 – to – 4	6 Gal	“ “ “
1 – to – 10	2-¾ Gal or 2 gal + 96 oz	“ “ “
1 – to – 12	2.3 Gal or 2 gal + 38 oz	“ “ “
1 – to – 15	1.9 Gal or 1 gal + 115 oz	“ “ “
1 – to – 20	1.4 Gal or 1 gal + 51 oz	“ “ “
1 – to – 32	116 oz	“ “ “
1 – to – 40	94 oz	“ “ “
1 – to – 50	75 oz	“ “ “
1 – to – 64	59 oz	“ “ “
1 – to – 128	30 oz	“ “ “
1 – to – 256	15 oz	“ “ “

55 GALLONS

To make 55 gallons of solution, use the following table:

Dilution Ratio	Add this amount Concentrate....	Add water to Make 55 gallons.
1 – to – 4	11 Gal	“ “ “
1 – to – 10	5 Gal	“ “ “
1 – to – 12	4.2 Gal or 4 gal + 25.5 oz	“ “ “
1 – to – 15	3.4 Gal or 3 gal + 51 oz	“ “ “
1 – to – 20	2.6 Gal or 2 gal + 77 oz	“ “ “
1 – to – 32	2.4 Gal or 2 gal + 51 oz	“ “ “
1 – to – 40	1.3 Gal or 1 gal + 38 oz	“ “ “
1 – to – 50	1.1 Gal or 1 gal + 12 oz	“ “ “
1 – to – 64	108 oz	“ “ “
1 – to – 128	55 oz	“ “ “
1 – to – 256	27 oz	“ “ “

CONVERSION CHART	Helpful Hint: When mixing cleaners, you may find it helpful to fill your container with the proper amount of water, or at least most of the water called for, then add the concentrate, thoroughly mix the solution, then add any remaining water to fill up your measuring container. If you add all of the water to the concentrate you may create a large amount of foam. By adding the concentrate to the water, the amount of foam is considerably minimized.
1 Gallon = 128 Ounces	
1 Quart = 32 Ounces	
1 Pint = 16 Ounces	
1 Cup = 8 Ounces	
1 Ounce = 1/8 Cup	
2 Cups = 1 Pint	
2 Pints = 1 Quart	
4 Quarts = 1 Gallon	