

## **Colloidal Silver Mixing**

We used to purchase from Mexico a colloidal silver solution of 3.2% silver concentration. We used 2 cc's of this product and mixed it into 300 cc's of unchlorinated water, this gave us a final .021% colloidal silver mix which we applied to the filtering element.

The Argenol powdered colloidal is 70% silver,  
One kilo of powdered (Argenol) colloidal silver is sufficient for 7000 filters (0.14 gram per filter, or 1.4 grams for 10 filters.)

1 gram of the powdered CS in 100 cc of water would equal a solution of .7% silver

**So:**

.1 gram of Powdered CS mixed into 300 cc of water would equal a solution of about .023%, the recommended strength.

.14 gram of Powdered CS mixed into 400cc of water would equal a solution of about .025%, the recommended strength.

At this calculation a kilo (1000 grams) of powdered CS would be enough to treat 1000 filters (with a .23 solution) still about 10 times stronger than what we use now but a similar mix to what the original filter inventor was using when I was trained back in 1984.

So if we use this powdered silver and prepare the solution we are presently mixing in Nicaragua (about .021%) a kilo should treat almost 10,000 filters.

To impregnate one filter you need about .3 liters of a mix of silver and water.

### **Formula to treat 400 Filters:**

- 1) Fill a large 50-60 liter plastic barrel with clean water.
- 2) Add 56 grams of the powdered colloidal silver and mix well.
- 3) Put on plastic gloves (to not stain your hands.)
- 4) Completely dip the filter into the mix for 45 seconds.
- 5) Remove the filter from the silver emptying any extra solution back Into the barrel.
- 6) Leave the filter to dry.
- 7) Stir the mix several times between dipping.

In the metric system, one liter of water weighs 1000 grams, and one milligram is one thousandth ( $1/1000$ ) of a gram, so 1 mg/L is the same as 1 ppm, as long as we are talking about water. Silver weighs a little more than water, but the equivalence is very close, and the terms are often used interchangeably. With this in mind, we can calculate that one teaspoon of 5 ppm colloidal silver has about 25 mcg (micrograms) of silver in it.