

Colloid Master ®

Manual & Operating Instructions



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Read attached Terms of Use and warranty before proceeding.

Read instructions completely before operating!

See our web site for the most current Terms of Use and Colloid Master

Colloid Master ® * These products or the by-products of their use, are not intended to diagnose, prevent, treat or cure any disease. We make no therapeutic, medical, dietary, veterinary, antimicrobial, antibiotic, pesticide or any other claims regarding a particular use of the Colloid Master ® or the resulting by-products of its use in any manner without exception!

Colloid Master ® Manual & Operating Instructions

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Operation Safety Warnings (Safety Precautions)

Warning: This is an electrical device, do not operate it with wet hands, especially when plugging in the wall transformer to the 110 or 220-volt wall receptacle!

Although the voltage is low (less than 50 volts) going to the Colloid Master ® from the power supply, as well as out of the Colloid Master ® to the electrodes, you should exercise caution when operating electrical devices near water and use only proper receptacles. Electricity such as 110 volts or 220 volts current from wall receptacles are a shock hazard, and could be hazardous or even deadly if mishandled. Therefore when operating this device you are advised to keep it out of the reach of children.

Safety guidelines for power supply: The Colloid Master Universal should be operated with the included wall power supply i.e. (500 mA Universal AC/DC adapter). The included power supply can be set to either 110 volts AC or 220 Volts AC. With a foreign travel adapter kit, the Universal Colloid Master ® can be used with power receptacles in most countries.

On the back of the wall power supply for the Colloid Master Universal (500 mA Universal AC/DC adapter), there is a “voltage selector” used to choose voltage output 110 or 220 volts. The front of the power supply has a switch for “polarity selector” which determines the polarity of the center pin of the coaxial jack (plug end) comes pre-set to the left (center positive). The voltage should be set to 12 volts. When using the Colloid Master ® Universal with 12 volt DC power sources, such as in an RV or other 12 volt applications such as solar or batteries, please use a REGULATED power supply adapter, available from us. We can provide a specially regulated adapter that can be used to plug into a 12 volt DC car cigarette lighter type receptacle or directly to a battery using a battery clamp adapter. The adapter is then plugged directly into the Colloid Master ®. The specially regulated adapter comes with the correct size coaxial plug for the Colloid Master and is regulated to approximately 500 mA at 12 volts. The optional regulated DC power adapter is also set to the correct polarity and comes

ready to use.

Overview

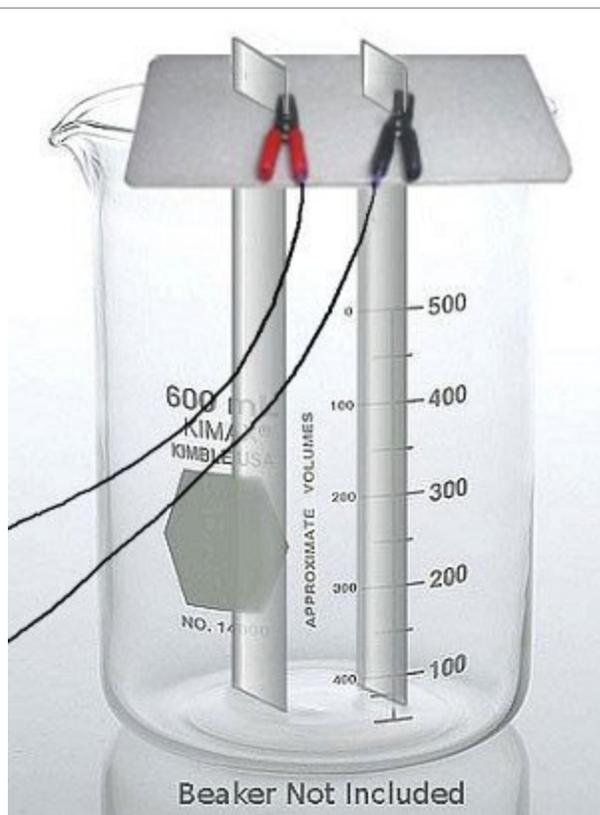
You will find the following items in your kit:

1. A wall transformer; 500 mA Adapter, this is the power supply. This plugs into the back of the Colloid Master ®.
2. Attached to the back of the Colloid Master are two wires with alligator clips, the clips attach directly onto the electrodes on top of the jar above the included electrode holder (as pictured below).
3. An envelope with the silver electrodes, electrode holder and electrode cleaning pad.

Note: The image to the right illustrates how electrodes should appear when properly placed, using a beaker, but a standard canning jar or any food grade jar will suffice. For example a 32-ounce, standard canning jar with a 2 1/2 to 3-inch opening, (lid size). For making gallons, the main issues are to use a food or lab grade glass and to make sure electrode spacing is approximately 1.5 inches apart. For making gallons, see making larger batches on Pg. 10.

Before you start you will need:

1. **Standard 32-ounce Jar, such as a food grade canning jar.**
2. **Pure distilled water.** Available at most grocery stores.
3. A location to set up your equipment that is not exposed to direct sunlight. Dim is good, darkness is OK but not a requirement.
4. Access to a wall receptacle for power.



Clean the electrodes before each use **under running water**. To clean electrodes hold the end that is bent, wrap the cleaning pad around the electrode and pull away from you. If you apply pressure towards yourself while cleaning the electrodes they will bend, the bend will leave a crease from being bent, then it will be harder to clean later, therefore, only pull away while cleaning electrodes under running water.

PPM: Although the PPM dial indicates 1-approximately 20 ppm, the concept is similar to the odometer of a car. Your car's speedometer goes from say 0 - 120 mph, but most people will not exceed 70 -80 mph. A similar concept can be applied with regard to using the Colloid Master.

For standard use, we recommend using a setting from 10 to 12 ppm.

Setting up and using the equipment

The Colloid Master was designed to be used with any standard sized 32-ounce jar, such as the type available from Mason® Kerr® or Ball® used for canning, you do not need a lab beaker. The jar is filled to within 1 or 2 inches of being full, using distilled water only!

The flat electrode holder that comes with the kit is placed on top of the jar you are using. The two silver electrodes that come with the kit are inserted into the electrode holder through slits that are set at about 1.25 (one and one-quarter inches to 1.5 inches) apart, which then maintains the proper electrode distance, (See the image on the previous page). You can make additional electrode holders from any nonmetallic material such as plastic or cardboard or purchase additional electrode holders.

The Colloid Master AC or Universal has two wire leads that are attached to two connectors on the back of the Colloid Master, one is red one is black. Each wire has a clip on the end, each wire clips onto one of the electrodes.



The Colloid Master AC and Universal have a dial that is used to set the desired parts per million (ppm). Once the dial is set, then the start button is pressed, **the process is running as long as the PROCESS WORKING green light is on when the green light goes off the process is done!**

Average process time is approximately 3.5 to 6 hours, and can vary depending on ppm setting, batch size (1 quart to 1 gallon) and water purity. **There will be a periodic clicking sound coming from the Colloid Master, this is normal.**

The colloid Master AC red light (monitor/process complete light) will go on and off throughout the process, which indicates that the pulse-stirring is working correctly, this is normal. This is the basic operation instructions, you can now make a batch. If you need assistance feel free to call us at (423) 261-2492.

The Colloid Master Universal power supply should be set to 110 volts for USA/CA etc. on the side toward where it plugs into the wall, on the front set it to 12 volts and the center + symbol.

The Colloid Master will shut itself off automatically when the desired setting is reached when the green light goes off the process is complete. When the green processing led indicator light goes off, the red led indicator will also brighten to further indicate and confirm that the process is complete. The electrodes are

then cleaned and readied for use to make the next batch. It's that simple to operate!

Troubleshooting & general usage notes:

Stirring: The Colloid Master does not use or need a mechanical stirring mechanism. The Colloid Master employs a bi-directional current pattern to the electrodes which electronically changes the positive and negative positions periodically. The pulse induced by the polarity change, in effect, causes the silver particles to be electrokinetically stirred. The Colloid Master was the first device of this type to employ these features, which have been a standard feature since 1998. By design, we effectively addressed this issue long before others even thought to consider it. The Colloid Master is an advanced design with a proven history!

Shelf life: The Colloid Master makes a very stable dispersion. We have stored the silver dispersions made with the Colloid Master in clear glass as well as clear PETE plastic bottles in a dark storage area at our facilities for 10 plus years, with little or no change from the PPM that it was when originally stored.

The self-life is many years. Based on our experience, we have determined that the preferred container for storing the silver dispersions in is glass. Colloidal silver dispersions that will be stored on a manner that it will be exposed to sunlight, then the brown glass container is best to use to protect it.

PETE type plastic stands for Polyethylene terephthalate. If you decide to use plastic containers, we can suggest that you look for a triangle type shape on the bottom of the container with the numbers 1, 2 or 4. These designations help establish types of PETE plastics that are likely to perform well for this particular use, also these designations help to avoid using plastics that pose toxicity and colloid degradation issues.

Colloid Master Trouble Shooting

Read this first! The two most common issues

After 13 plus years of providing technical and customer support for the Colloid Master, we generally know within a few minutes of talking to a customer what the issue is. Based on these years of experience, we have compiled this troubleshooting section which will help you right now. That said, feel free to call us if you are having a problem, we have the best customers on the planet and enjoy talking to you. Still the following is generally what we go over during any technical support call.

The two most common problems that people experience are; (1) the green light won't stay on and (2) The process seems to be [running too long or won't shut off by itself](#). When either of these things occur, the normal response is to wonder if there is a problem with the Colloid Master. After you follow the tests below you will see for yourself that any issues are easily determined by following the procedures below, and that actually dysfunctional Colloid Masters are rare to none.

The first thing we want to do is to assure you that we will take care of you and make sure you are happy with your Colloid Master. Because we are the manufacturer we can and will fix the problem if there actually is a problem. We also service the Colloid Master when it is out of warranty.

That said, the number one issue is water quality, although you should follow the troubleshooting steps 1 - 4 which will allow you to test all functions of the Colloid Master and assist you in correcting issues that can cause problems. All of this is covered if you keep reading and follow the simple steps explained below.

The Colloid Master was designed with the idea that it should be automated and shut itself off when the correct ppm is reached, thus making a reliable ppm each time. But that is not the only reason we designed

the automatic shut off feature, we also wanted to make sure that the process would not work if contaminants were present in the water. The first step of every technical support call is to walk the customer through a few steps that either confirm that the Colloid Master is working correctly, or confirm that there actually is a problem with it. These tests are done as follows:

How to determine if the Colloid Master is functioning correctly

The steps to determine if the Colloid Master is working correctly:

1. Check the specs on your power supply, the wall transformer that you plug into the outlet on the wall. Does the label say Output: 12 volts at 500mA? if not you may not be using the original power supply, Call us if you need to replace a lost or broken power transformer.
2. Plug in your power supply if it is the correct specs, as shown above, then plug the coaxial adapter from it into the Colloid Master.
3. Turn the ppm dial to 16 PPM, take the electrode wires from the back of the Colloid Master and separate them so that they do not touch and set them on a nonmetallic surface.
4. Start the Colloid Master all by itself as just described, not connected to the silver electrodes.
5. Press the start/process button, if the green LED light (indicator) is on and stays on the Colloid Master is working correctly, and you can proceed to the next section to do the water quality shut-off Test as described below.
6. If the Colloid Master does not power-up, or the green light does not stay on when you start the Colloid Master by itself (not connected to the silver in water) then call us, because you most likely need a new wall transformer/power supply. (423) 261-2492 .

If the Colloid Master powers up meaning: The Colloid Master by itself (not connected to the silver in water) and when you press the start button the green indicator light remains on without continuously depressing the start button, this indicates that the Colloid Master is working correctly nearly 100% of the time. The few exceptions are covered below. What we then need to do is determine that each feature is fully functional, and in the process you will become better acquainted with using and troubleshooting the Colloid Master. We will begin with the following procedures:

- (1) Water quality test (2) Automatic shut of feature test

Using the Colloid Master built in water quality test function

Since the Colloid Master was designed in essence to monitor PPM, it can also be used to test water quality. It is important to note that: the Colloid Master is only designed to work with pure distilled water, not tap or spring water. The water quality test is tied to the automatic shut off feature, so this test involves two steps.

(Step 1) The water quality test:

Fill your jar with water but not so full that it will spill if moved, then suspend the electrodes into the water using the electrode holder which keeps the electrodes 1 1/4 inches apart. You may also hang the electrodes from the rim of the jar but it is better to use an electrode holder, because the distance that the electrodes are apart should not exceed 2 1/2" inches. If a custom electrode holder is used the electrodes should be set at 1 1/4" inches apart and no closer than 3/4" of an inch apart. The flat side of the electrodes should face each other.

Plug the wall power supply into the Colloid Master, turn the PPM adjuster dial to the highest setting (setting 16 PPM), press the green start button. If the green light does not stay on the water has more than 16 ppm of something in it and is not usable.

If the green light stays on, then very slowly turn the dial down toward the lowest numbered setting and observe where the green light goes out. If the green light does not go off at all, and instead remains on, this is very good and means the water is very pure. If the green processing light does not go off at any setting down to 0, it means the water has less than 1 PPM of dissolved solids in it and is pure. If the green light goes out somewhere around setting #1 the water is acceptable, if the green light goes out at or above setting 3 PPM the water is not

generally considered pure enough, and a better quality water should be obtained or the distilled water you are using may need post-filtering. Also see the section on dealing with water quality issues below.

(Step 2) Testing automatic shut-off feature:

In order for this test to work correctly, you must first validate the water quality test as described above in (Step 1), then proceed to this step.

First depress the spring loaded tab that connects the electrode wires to the back of the Colloid Master and remove each wire. Then press the spring loaded tabs again and reinsert the electrode wires into the back of the Colloid Master, visually inspecting to make sure that only the metal wire, not the plastic shielding makes contact with the visible metal part of the connector on the back of the Colloid Master.

With your jar of water and the electrodes still ready from having done (Step 1) above, now connect the electrode wires from the Colloid Master to the silver electrodes in the water. Turn the PPM adjustment dial on the Colloid Master to setting 16 PPM, then press the start process button.

The green processing light should stay on if it doesn't stay on please proceed to the section titled: [The green light won't stay on unless the start button is held in.](#)

If the green processing light stays on at setting 16 PPM, then the most direct way to test if the automatic shut off feature is working is to now move the silver electrodes to an angle that causes them to touch IN THE WATER so that the energy goes into the water, not the Colloid Master.

If the green processing light on the Colloid Master shuts off when the electrodes are touched together in the water it is working correctly. It is not a feature that partially works if it works it works correctly, if it becomes dysfunctional it will not work at all.

Dealing with water quality issues

As mentioned in all Colloid Master literature, the process is designed to only work with distilled water. The Colloid Master was designed to reliably make a consistent ppm each time. But that is not the only reason we designed the automatic shut off feature, we wanted to make sure that the process would not work if contaminants were present in the water. The most widely available water to use that meets this criterion is distilled water. Note: If available you may use deionized water, or pass your distilled water through deionization media to prepare the water for processing, although it is not a requirement.

If you have used the Colloid Master water quality test function, and it failed there are several things to note:

The easiest solution, generally speaking, is to purchase a different brand of distilled water.

The second solution is to post-filter the distilled water. This is usually only needed if you are distilling your own water, and the reasons for this may include that; the stainless that was used to make your distiller may be leaching its metal into the final distilled water. Also, If you are distilling your own water the coconut-charcoal final filter may not be working adequately, or may need replacement.

The best quality to use is deionized reagent standard distilled water, but we get very good results using simple readily available methods to post-filter and increase water purity. One of the easiest and most inexpensive ways to post filter or clean-up distilled water is with a Britta ®

pitcher filter. Their product literature claims 99.9% removal of contaminants. Most people have reported excellent results using the [Britta® pitcher filter](#).

Optionally, you can also confirm water quality with a portable water tester that digitally displays the total dissolved solids or lack of them. We sell tds aka ppm meters at www.wishgranted.com

If you started here and have not yet done steps 1-4 you should do so now.

The green light won't stay on unless the start button is held in

As described in the water test above, the Colloid Master knows if the water is pure or not. If the dial is turned to the highest setting and when the green start button is pressed and the green light goes on while the button is pressed, but it then goes off when you take your finger off of the start button, the following describes what you should do.

This normally indicates highly contaminated water. However, this symptom can also be one of the only indicators of an actually dysfunctional Colloid Master.

How to determine if the problem is the Colloid Master or a water quality issue.

- Plug in the wall transformer and plug it into the Colloid Master.
- Press the spring loaded tabs on the back of the Colloid Master and completely remove the electrode wires.
- Set the Colloid Master to 16 PPM, plug the power supply into the Colloid Master and press start.
- If the green light stays on by itself the Colloid Master is ok. If the green light only stays on with the start button pressed in the Colloid Master has either been affected by an intense electrical line surge or lightning are the main reasons that the Colloid Master behaves like this. In this case, you should call or email us and arrange to send the power supply along with the Colloid Master to us for repair.
- To avoid problems with the Colloid Master, you should only plug your power supply into a surge-protector or better yet a surge protector lightning suppressor.
- If your Colloid Master operates (green light is on) without continuously depressing the start button then nearly 100% of the time it is a water quality issue. See the sections on [Using the Colloid Master built in water quality test function](#) and [Dealing with water quality issues](#).

Neither the green light nor the red light will go on

The main reasons why the Colloid Master will not power up are:

- The power supply is wrong (lost in a move, misplaced or confused with another wall transformer and is actually the wrong one.)
- Bad contact from power supply into the Colloid Master (symptom: power flickers)
- The power supply is bad
- The Colloid Master itself is broken

When the Colloid Maser will not power up, 99.9% of the time it is due to a faulty or wrong power supply. The Colloid Master is built so well that we almost never have a problem with them, ever. However; if you have the correct power supply and the Colloid Master does not power up, then we ask that you call or email us to arrange to send both the power supply and Colloid Master to us for our tech dept to review your equipment.

If you are in an international location, due to shipping costs involved, it is usually a safe bet that the fix 99.9% of the time is to simply order a replacement power supply from us rather than sending the whole unit to us.

However, if you have completed the steps in the section above titled The green light won't stay on unless the start button is held in, and the green light on the Colloid Master did not stay on with the wires NOT connected

to the silver in water, then you will need to send the Colloid Master to us for repair. If you are having a problem, you can call us at (423) 261-2492 or email us at; wishgranted@gmail.com

The batch seems to be taking too long or won't shut off

The main reasons for this problem are:

- Electrodes were not cleaned well enough! The electrodes should be cleaned to remove most oxidation before using.
- Electrodes too far apart (more than 1.5 inches apart) or curved outward in the water.
- The process is being influenced by Solar events such as a coronal mass ejection.
- Too large of a batch size, such as 5 gallons etc.

The most common reason that the process runs longer than usual is from having the electrodes too far apart. You can avoid this problem by reading the section on Making standard batches or Making larger batches below. The other main reason that batches can run longer or not shut off as usual may be surprising at first glance, and some people will doubt the veracity of this instruction until their own experience proves that it is true that; solar flare energy/radiation that reaches Earth, can affect the colloidal production process. This issue is covered below in the section titled: Solar events and environmental influences.

The Colloid Master only cares about making small particles and only shuts off at the right ppm, the main thing that changes is the time it takes to make a batch. If you make a batch that is larger than 32-ounces, the electrode distance as well as the electrode size you are using effects the time it takes to make a batch, but the ppm and particles, in general, will still be consistent.

Generally speaking, you get the best results when making a 32-ounce batch, and using an electrode holder to keep the electrodes at 1 1/4" inches to 1.5" inches apart. A 32-ounce batch with water that tests 1 ppm or less before beginning the process, using electrodes that a 6" inch X 1/2" or 1/4" inch .999 silver will generally take from 3.5 to 6 hours.

If you are using your own custom electrode holder, the optimal electrode distance is 1 1/4" inches to no closer than 3/4" of an inch apart. If the electrodes are curved outward in the water this can cause the unit to take longer to shut off.

Other reasons that production time can vary

Production time and parts per million, in general, will vary primarily due to factors such as water quality, power source, having the jar too close to 220 Volt AC power lines or anything that creates moving magnetic fields such as a 220 Volt AC motors. Surprisingly one of the biggest concerns is the Sun, in particular, solar events such as coronal mass ejections. This may seem odd at first, however; we have monitored numerous solar events that correlate to observed changes in the colloidal production time and resulting colloid for more than 13 years at the time of this writing. This issue is covered below in the section titled: [Solar events and environmental influences that affect the process.](#)

Making standard batches

The Colloid Master will work by hanging the electrodes on the rim of a standard size jar, like a 32-ounce canning jar, but the distance between the electrodes can not be more than 2 1/2" inches wide, if you are using the rim of the jar to suspend the electrodes. **It is always best to use an electrode holder!**

The Colloid Master works well with the electrodes on the rim across from one another, but when solar events occur a distance between the electrodes larger than 1.5 inches increases the oxidation more than usual and inhibits the shut-off feature. Therefore; it is always best to use an electrode holder and keep the electrodes about 1 1/4" inches apart. When using a standard jar and no electrode holder: position the electrodes across from each other, so that the flat side faces each other at about 2 1/2" inches apart and make sure the portion of the electrodes in the water are tilted more toward one another rather than outward.

Warning: if you use a wide mouth jar that has an opening that measures 3" inches across, or if you use a jar that places the electrodes more than 2 1/2" inches apart, then the colloid master will either run longer than normal, will not shut off, or will not shut off for a very long time.

Our rule of thumb is to use 32-ounce jar and an electrode distance of 1 1/4" inches to no closer than 3/4" of an inch and no further apart than 2 1/2 inches. Whenever a batch runs longer than usual by 2 hours, we call that batch done and shut it off. The only time this will ever occur is when Earth is being saturated by energy from solar flares. Also, see Solar flares and environmental influences below.

The general range of time it takes to produce colloid is dependent upon; the setting used, batch size, electrode distance, electrode size and environmental conditions. The average time expected for setting 10 PPM using .999 silver electrodes that are 6" inches long by 1/2" or 1/4" inch, making a 32-ounce batch, takes approximately 3.5 to 6 hours if the water tests 1 ppm or less. Increasing the electrode distance increasing the time to make a batch, for example, 2 1/2" inch electrode distance will increase the average time by several hours per batch.

The water quality, environmental and other factors such as the volume of water used for the batch, electrode distance, electrode size as well as magnetic fields etc., will cause variations in a manner that primarily affects the time to complete the process. You will become familiar after making several batches, and with experience you will become familiar with the subtleties of the process. Most people become creative and make the process their own, in their own unique ways.

The time required to produce a batch of colloid at the same setting may vary slightly from one batch to the next, even when using the same water, this we believe is caused by the subtle influence of fluctuations caused by cosmic radiation that reaches Earth, as well as atmospheric interplays with such energies and the magnetic field of the Earth itself, and when conditions are sufficient to effect the production process, they do.

The good news is that even with constantly changing influences affecting the process the resulting colloid is very predictable overall. A consistently small particle size is maintained by the Colloid Master from batch to batch, as a result the colloid is stable batch to batch and the PPM is very repeatable. We have colloid in storage from over a 10 years ago that has remained about the same PPM as when it was stored, meaning within approximately 1 PPM of when it was stored. As a note, the stored colloid we have ranges from 10 to 17 PPM.

Making larger batches

Note: Batch size should not exceed 1 gallon. Experimentation with making batches larger than a gallon is up to you, but we do not offer tech support advice. If you make a batch larger than 128 ounces (1 gallon).

If you are making one-gallon batches, the time it takes for the process to complete the batch can be 8 to 24 hours, depending on water quality and electrode size and distance it can be sooner than 5 hours but it should not take longer than 24 hours. If a gallon batch runs more than 24 hours, see the section on solar and environmental influences. Also, the addition of a few ounces of previously made colloid as a starter can speed the process up.

When making larger batches closer electrode placement works best. Most people making 1-gallon batches use a 1" inch or a 3/4" electrode distance. In any case, it is best to keep the electrode distance under 1 1/4" inches with larger batches. Also, it is usually helpful to use the longer 8" (Eight Inch) electrodes that we sell at our web store.

Solar events and environmental influences that affect the process

In terms of the Colloid Master stability, it functions the same way every time it is used, however; there are other factors to consider. Changes in environmental conditions affect the process such as ionization in the air that is transferred to the container during the process, as well as forms of cosmic energy from space and energy from solar events that reach Earth. That is why we do not use a timer, we have found that, in order to maintain small particles a precise adaptive process is required, realizing this is what lead to the creation of Colloid Master auto-shut off configuration.

During the process there is water and silver interacting with electrical current, silver atoms and ions are dispersed into the water, some silver combines directly with oxygen (silver oxide) on the electrodes. The silver oxide that is produced during the process will not become suspended into the liquid because the material accumulated on the electrodes aggregates into a much larger particle size, larger than one micron and particles of this type and size will not remain in suspension and instead they precipitate onto the bottom of the container.

At times of intense solar events, the silver oxide particles accumulate and fall off of the electrodes to become easily visible on the bottom of the production container. At these times, there will also be a noticeable accumulation of the dark colored silver oxide on the electrodes, more so than usual. Solar events usually affect the process here on Earth for no more than 3 days, as a general rule of thumb.

The finished colloid should be filtered simply to remove the silver oxide material that falls to the bottom and is stirred up when pouring the liquid from the container it was made in, into another storage container. The colloid can be filtered and used or stored immediately after the process completes. Although you can use the finished batch immediately, it is usually best to wait for 36 to 72 hours as mentioned above, when the particles have finished dispersion and reached the stable phase. See more information regarding filtering in the next section below titled: Filtering the final product

Solar events have a strong influence in terms of slowing the process of making a colloid, primarily because it causes increased oxidation, which inhibits silver from moving into the water and if it accumulates too much it inhibits the auto shut off sensing. The effects from solar events usually last about 3 days, which occurs especially when the sun produces a coronal mass ejection, and if the ejection is aimed our way the sun sends lots of high energy phenomena such as x-rays, gamma etc. our way.

You can monitor solar events yourself at the link below, which provides tools for monitoring solar events and the geomagnetic field.

<http://solar-center.stanford.edu/weather.html>

Filtering the Final product

The finished colloid should be filtered simply to remove the silver oxide material that falls to the bottom and is stirred up when pouring the liquid from the container it was made in, into another storage container. The colloid can be filtered and used or stored immediately after the process completes. Although you can use the finished batch immediately, it is usually best to wait for 36 to 72 hours as mentioned above, when the particles have finished dispersion and reached the stable phase.

The approach that you personally take to filter the finished product must be approached carefully. If you use any filter media that is made from plastics, it can adversely affect the ions in the solution and can even cause

the colloidal particle clusters to aggregate. The easiest method we have found is to use three nonbleached coffee filters in a funnel gravity filter system. A better approach is to use paper filter media and a vacuum filter.

That said, we have found that when paper filter media is used, it is best to be mindful that the paper has not been chemically treated. It is best to use paper that is nonbleached and does not contain anti microbial or other chemicals. Such things as formaldehyde, which may be used during the paper production process of bleached paper are very undesirable. We are not a lab supply and because of the complexities involved we do not sell filter media or systems. A search for the term lab supply provides plenty of options. For most of our work, we use 3-4 brown paper coffee filters and a gravity or vacuum filter method with appropriately sized paper filter discs.

The batch seems to shut off sooner than expected

The usual reason that a batch will shut off sooner than expected is because the distilled water is not pure enough (also see [Using the Colloid Master built in water quality test function](#)). However, we need to qualify what is meant by sooner. If a batch runs less than 1.5 hours **with less than pure distilled water**, that is normal. With very pure distilled water, the process runs approximately 3.5 to 6 hours with a 1 1/4" inch electrodes spacing for a 32-ounce batch. Always check water quality when using a new distilled water source!

The next most common reason that a batch shuts off sooner than normal is when the electrodes are closer than 1" inch, which can cause the process can shut off sooner.

Generally, the electrodes should not be closer than approximately 1 1/4" inch to 1" inch apart, unless the batch is larger than 32-ounces.

The Colloid Master only cares about making small particles and only shuts off at the right ppm, the main thing that changes is the time it takes to make a batch. If you make a bigger than 32-ounce batch that changes the time, the electrode distance as well as the electrode size you are using effects the time it takes to make a batch, but the ppm and particles will still be consistent.

Generally speaking, you get the best results when making a 32-ounce batch, and using our electrode holder to keep the electrodes 1 1/4" inches apart. If you are using your own custom electrode holder, the optimal electrode distance is 1 1/4" inches to 1 3/4" of an inch apart. If the electrodes are curved in the water and are too close this can cause the unit to shut off sooner. If you have reviewed this material and still have questions or concerns feel free to call or email us at wishgranted@gmail.com

About the use of salt (sodium chloride) or NaHCO₃ (bicarbonate of soda)

We do not use salt or bicarbonate of soda (baking soda) as a part of the colloidal silver production process, nor do we recommend using it. There are or have been proponents of the use of those materials, which is used to increase conductivity in the water, usually this is done in order to compensate for the inadequacies of the overall control of the process, and speed the process up. However, taking this approach causes variations in the process and the resulting colloid dispersion that our opinion is undesirable, such as creating particle clusters that are too large, which causes the finished product unstable or in other ways to be degraded.

If one wishes to speed the process using the Colloid Master the only method that will work is the addition of 1 to 3 ounces of previously made colloid to the fresh distilled water before starting a new batch. The starter is added after the water test or when using water of known adequate quality. Adding previously made colloid as a starter will decrease the time needed to complete the process.

Using previously made colloid as a starter is the optimal method. The use of a 1 -3 ounces of previously made colloid as a starter may decrease the time that the process takes to complete, but it does not generally increase PPM or otherwise measurably alter the end results from the usual outcome.

About heating the water

Heating the water is not required with the Colloid Master, it is designed to work at room temperature meaning an Environment: 60 to 105 F (15.5 - 40.5 Celsius).

Some users indicate that they are using a heating device to maintain a water temperature that varies from user to user, but is below boiling, and they prefer this approach. The bonds in the water are more malleable at warmer temperatures, and there may be a benefit in taking this approach for you. Again, as always, the Colloid Master is a very adaptable device in terms of how people use it. You will need to test the resulting colloidal dispersion to see if such changes in term of how you produce dispersions leads to the results you yourself are looking for.

What happens when the Colloid Master process is complete?

The Colloid Master shuts off automatically. At that point, the electrodes can be removed. The water (dispersion medium) combined with the silver particles will go through a dispersion-phase during the first 36-72 hours. During this time, the particles create stable associations forming nanoclusters. After the first 36-72 hours the particles are in a stable phase or state, relatively speaking. It is of particular importance to keep the colloid out of direct sunlight during the first 36-72 hours. For storage of the finished product is best to use a brown glass container if the material will be exposed to light, or a clear glass container stored in a dark location. Alternately amber glass or a ceramic container that does not allow any light through. Blue glass does not work as well as brown/amber glass. We usually [filter](#) the colloid after 72 hours then store it.

Stirring during the process of making colloidal silver

The Colloid Master does not use or need a mechanical stirring mechanism. The Colloid Master employs a bi-directional current pattern to the electrodes which electronically changes the positive and negative positions periodically. The pulse induced by the polarity change, in effect, causes the silver particles to be electrokinetically stirred. The Colloid Master was the first device of this type to employ these features, which have been a standard feature since 1998. By design, we effectively addressed this issue long before others even thought to consider it.

We have noticed that when some users reported that they were using a fish tank bubbler to keep the water moving during the process, that then the solution was often clear even after the 72 hour period. Although this is a rather complex issue because the air itself now must be considered, contaminants carbon etc. must then be taken into account, but the bottom line reason, generally speaking, is that dispersions made this way can become mostly ionic and true colloidal particles may be inhibited from being produced. If you choose to experiment with stirring you are on your own.

How many parts per million does the Colloid Master make?

- The dial of the Colloid Master has indicators (numbers and dots) that indicate PPM settings from 1 - 20 PPM, however, **we do not recommend using settings above 12 ppm.**

What is the best PPM (Parts per Million) to use?

This is really a matter of the intended end use, however, we do not provide advice or consulting with regard to individual applications or use of the silver dispersions. That said, based on our research, it has been our long-standing opinion that the optimal range for making a stable silver dispersion with water as the dispersion medium is 10 to a maximum of 17 PPM.

There are many factors that we took into consideration when making this decision, including the particle size as well as the overall colloidal integrity and stability. In our opinion, the silver dispersion is saturated with submicron silver particles in balance with the ionic content at approximately **13.5 PPM**, therefore, the best range for stability and ease of use is 10 PPM to 12 PPM generally speaking.

Although higher parts per million can be forced or attained via other processes, our research has convinced us that forcing higher PPM usually causes the particles to aggregate into larger particles, which in our opinion compromises the quality, integrity and in effect causes the colloidal dispersion to be less stable and desirable. We use setting 10-12 PPM for most of our in-house work.

About the color of colloidal silver

To make sense of the colloidal silver color issue, I will quote from a paper by "Paul Mulvaney - Berich Strahlenchemie, Hahn-Meiter institute, D - 1000, berlin, 39, Germany" Titled " Colloidal Silver: Charge-Transfer Process and Photochemistry"

"In this report we present some recent results on charge-transfer and chemisorption process on colloidal silver. It has been found that the surface plasmon absorption band of colloidal silver, which is responsible for the yellow color of silver sols, is very sensitive to changes in the state of the colloid surface."

"The positively charged sols have a yellow-brown color while negatively charged sol particles are a pale yellow.)"

" The absorption band maxima is shifted to shorter wavelengths when the particle becomes negatively polarized. Thus, the optical spectrum can, in principle, be used to determine whether a silver sol is negatively or positively polarized." "One difficulty is to determine the wavelength of the absorption maximum when silver is uncharged (i.e., at the so-called plasma null point or PNP.)" [End quote]

Colloidal silver can appear to be light yellow to yellow-brown like tea, not because of excessive oxidation as is sometimes reported, the main consideration is the surface plasmon absorption band polarization. The color is due to the light refraction of the yellow to yellow-red/brown part of the light spectrum.

It is possible for contaminants or oxidation to be a factor regarding the color of the colloidal material, generally speaking, but the Colloid Master will not function if contaminants are present. The colors described above are a result of polarized charge contained in the surface plasmon absorption band, not contaminants or oxides. The reason is somewhat like explaining why the sky is blue. In this case, the colloidal liquid is light yellow to a deep golden color because silver particles absorb the blue part of the light spectrum while the yellow-red light spectrum is emitted as the golden color.

Colloidal silver is defined as particles and clusters of silver in the 1-100-nanometer size range. A particle is at least two atoms of silver, each atom has at least 47 orbital electrons. Colloidal silver is particle clusters that are approximately 1 nanometer to 1-micron in size, that are dispersed into a liquid, this accurately describes colloidal silver. Technically speaking, liquids other than water could still accurately describe colloidal silver, the addition of proteins may also still qualify as a colloid, even compounds may at times qualify, but when we speak of colloidal silver we mean 1 nm to 1 micron silver particles in water specifically, and no other additives.

Colloidal particles are in a state of dynamic balance and are in essence electrically neutral (not positive or negative) because the two charges present within the cluster itself are in a state of equilibrium, for the most part, yet it is the interplay of the particles and the medium that causes the particles to be in constant motion and evenly suspended and stable, which also describes the colloidal state itself. The thing to keep in mind is that colloidal silver is not just the silver in water that is the colloid, the medium itself (the water) is a part of the colloidal system.

In the unlikely event, that you have a dysfunctional unit, or just want to talk to a live person call customer support (423) 261-2492. If you have questions before buying feel free to give us a call. You can rest assured you will always have any problem or question addressed in a timely fashion.

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The Colloid Master ® has been designed with the professional in mind, for educational / research purposes, not for medical purposes. Any information regarding lab tests regarding silver water or any other silver preparation should not be mistaken as an implication that silver water produced with the Colloid Master ® is to be used as a medicine for treatment in humans. All information provided by Synergenesis, Inc., regarding silver in what ever form, with regard to tests or references to other materials, is provided for research, educational purposes, and for consideration with regard to the argument for, and reasoning for doing continued research only, not as an implication that the products we sell are to be used for medical purposes, period! No claims are made nor implied, with regard to the use of colloidal silver / silver mineral water for medical conditions. Colloidal silver is regulated by the FDA and is not approved as an OTC (over the counter) drug by the FDA. There is no RDA (Recommended Daily Allowance) established, nor is the need, role or safety regarding nutritional use established clinically / scientifically. Therefore; we are not implying nor recommending such use, nor, that anyone self-diagnose and treat their own illness using silver or other minerals dispersed into water using the Colloid Master or by any other source.

The user is solely responsible with regard to all use, personal and or commercial applications of the mineral dispersions resulting from the use of the Colloid Master. For more information regarding regulation, related issues and documents, please visit: <http://www.wishgranted.com> click on the "Reading Room" link at the top of the page.

If you are planning to make silver water / colloidal silver commercially as a dietary supplement, it is your sole responsibility burden to make sure you are compliant with all established laws, we do not warrant the Colloid Master ® for any particular use other than research in terms of educational purposes only!

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You warrant that you are at least 18 years of age and possess the legal ability to enter into this agreement. If you are not, please return your products immediately for a refund.

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30-day money back guarantees for the "Colloid Master" only. Conditions: Shipping is NON-REFUNDABLE. If returned in as received condition. If returned in used or damaged condition fees may be charged for damage to such items. Returns may incur a 10% restock fee, Synergenesis, Inc. may waive the restock fee at Synergenesis's sole discretion, such as when orders that are received via phone or mail, shipping is non-refundable. Lifetime warranty: As long as the original End User continues to own or use the Product validated by original purchase receipt, provided that: power supply warranty is limited to five (5) years and replaced 1 time per End User. In the event of discontinuance of product manufacture, warranty support is limited to five (5) years from the announcement of model discontinuance. **Replacement, Repair or Refund Procedure for Colloid Master: Synergenesis** or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of the returned RMA packaged item and request. Synergenesis will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials to USA locations. Repaired parts or replacement products will be provided by Synergenesis on an exchange basis, and will be either new or repaired/re-certified, we reserve the right to refund the purchase price as its exclusive warranty remedy. This warranty does not cover any damage to this product that results from accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or any unauthorized disassembly, repair, or modification. This warranty also does not apply to any product on which the original warranty tamper seal has been altered, obliterated or removed, has been sold as second-hand or has been resold contrary to the US export regulations. Customer agrees to hold Synergenesis, Inc. harmless regarding delivery delays beyond our control, such as strikes, wars, civil unrest, catastrophes or acts of GOD. Product prices, specifications, performance & availability subject to change without notice. Void where prohibited. All items purchased from Synergenesis, Inc. are made pursuant to a shipment contract. This means that the risk of loss and title for such items passes to you upon our delivery to the carrier. We are not responsible for lost or damaged packages, shipping insurance is extra and added to the order at the customer's request, limited to availability from delivery service and destination restrictions. We reserve the right to refuse sales to anyone at our sole discretion. Purchase of our products, singly or in bulk, does not imply a formal business association with wishgranted.com or Synergenesis, Inc. All bulk purchases will be taxed as applicable, we do not currently sell wholesale. Any purchaser of our products, who then resells such products, does so at their sole discretion and is solely liable for their actions in doing so without exception. For more information contact: Synergenesis, Inc. P.O. Box 92, Coker Creek Tennessee 37314 (423) 261-2492.

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