

Wagner & Griswold Society

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(Moderators: [Scott Sanders](#), [Jeff Friend](#))

Electrolysis in cold weather? (Read 203 times)

Charles Jefferson
Ex Forum Member

Electrolysis in cold weather?

Oct 21st, 2012, 8:56am

Is there a time when the weather/water is too cold to get an effective electrolysis on a piece of iron? Or does it even work in cold water?

Scott Sanders
Moderator



Re: Electrolysis in cold weather?

Reply #1 - Oct 21st, 2012, 9:10am

Hi Charles, We have had several discussions on electrolysis and lye baths getting cold or freezing and you may find some information by doing a search for "freeze" or "freezing". The cold weather does slow down the process. I'm sure others will come on and give you more information. Cheryl has done some experimenting and I'm sure she will give you her results.

Posts: 1300

Scott

Cheryl Watson
Forum Administrator

WAGS member



Re: Electrolysis in cold weather?

Reply #2 - Oct 21st, 2012, 12:36pm

Yes, the cold weather slows it down.

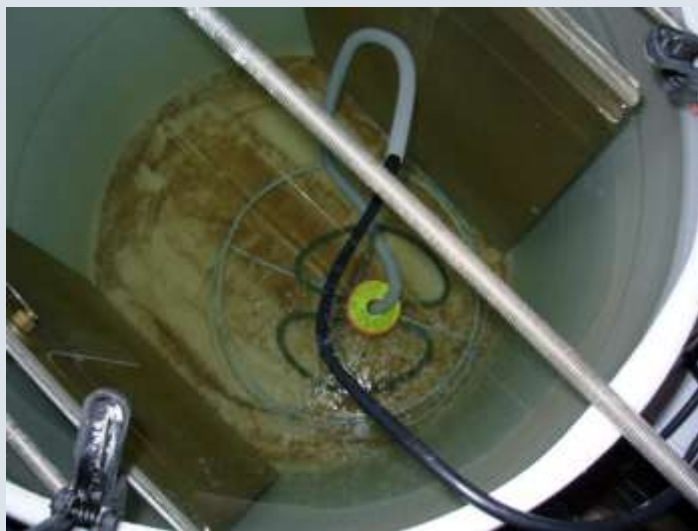
I have a stock tank heater from Tractor supply that I used last winter to prevent total hard freeze up of the electro. Initially running the electro at 40-65 amps will also help warm up the solution.

Posts: 4009

I also have a 16 gallon heated plastic tub for a lye bath..... worked great! I had to steal a Rubbermaid lid for the top of it.... it kept the lye at or about 60° with the lid on....

Now how do I know this??? Well being the 'tinkerer', I had a SS cooking thermometer suspended in it! 😊

I also insulate the electro and winter lye bath..... got a hot water heater jacket and cut down. One jacket fit both. I also added a Kerosene heater to the garage.



Cheryl Watson
Forum Administrator

WAGS member



Re: Electrolysis in cold weather?

Reply #3 - Oct 21st, 2012, 12:37pm

#2

Posts: 4009



Charles Jefferson
Ex Forum Member

Re: Electrolysis in cold weather?

Reply #4 - Oct 22nd, 2012, 8:11am

Thanks Cheryl

Jim Glatthaar
WAGS member



Re: Electrolysis in cold weather?

Reply #5 - Oct 23rd, 2012, 1:38am

Cheryl, impressive set-up. I suspect the mad scientist in you created it?

Posts: 625

Cheryl Watson
Forum Administrator

WAGS member



Re: Electrolysis in cold weather?

Reply #6 - Oct 23rd, 2012, 2:03am



Posts: 4009

Jim Glatthaar
WAGS member



Re: Electrolysis in cold weather?

Reply #7 - Oct 24th, 2012, 12:40am

Colme to think of it, I have 2 propagation mats for growing seedlings (another project where I bought everything I needed and never did anything else) which I could wrap around my electrolysis tank (when I set it up of course) 😊

Posts: 625