

Re: nichrome wire insulation

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You might look for "water glass". It's a silicon compound (???) that's water soluble. Evidently, it is used as an electrical insulator at high temperatures.

Hul

runcyclexski@xxxxxxxx wrote:

I am building a compact air heater as a hobby project where the air is blown between fine fins of several aluminum heat sinks. The temperature needs to be raised from ~0C to ~37C and needs to handle air flows of up to ~100 L/min. I did an envelope calculation taking into account heat capacity of dry air, and it appears that I would need ~100W, 300W to be safe, for that.

So I want to run a nichrome wire in a spiral pattern along the surface of the aluminum heat sinks. But wouldn't that cause a short? Can I get insulated nichrome which would conduct heat, but not conduct electricity? Any suggestions?