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You must already know that cartridge heaters are pretty much indispensable. Their usage is highly important in the industries dealing with process heating. A cartridge heater is a tubular device that is used to heat any substance. The heater is usually made of a heating coil. This heating coil is made of a high performance conductor which will allow for maximum amount of heat transfer to happen.

The conductor also has a nichrome alloy coil, a sheath made of highly resistant materials (mostly stainless steel or other super alloys), insulation by filling magnesium oxide between the sheath and the heater. There is also a seal at the end that is open in order to prevent any leakage or contamination. This will also protect you from making sure that there is no exposure to the wrong temperatures as well. The lead wire of the conductor can be made of silicone rubber, fiberglass or impregnated fiberglass.

Another thing that determines the effectiveness of the cartridge heater is the watt density. This does not mean that you need to have a high watt density for the cartridge heater to give you a high performance. Most of the applications that you will put the cartridge heater for will provide for a watt usage that is minimal. You can use the heater for all its applications without pushing the safety margins. You can make sure that the fitting of the heaters into the electric holes are tight. This would ensure safety of usage, but if there is a loose fit, it will be easy for you to install and remove the cartridge heater.

There are some temperature sensors between heaters and the surface that can detect the rise in temperature when you're using high wattage. You can even use some surface mount sensors to detect the temperature- this will certainly be useful for a cartridge heaters. There are some cartridge heaters that have a heavy duty heater. If you're looking for a heater with which you can work on hot plates, moulds, dies etc, this is the best option for you. These heaters come with better shock absorption as well.

These high watt density heaters usually come with a plastic molding and a flat metal end. The metal end is made of a conductor like copper so that the maximum heat transfer is made between the two sensors. Through this, you will be able to make a better temperature recording. The insulation provided is compact and you will be able to get some highly efficient heat transfer done. The resistance wire functioning will also happen at a lower temperature.

You can also opt for a low density cartridge heater instead. These low density heaters have a nichrome wire and a ceramic sheath. The heater will also be installed in a brass tube that is filled with magnesium oxide. This is a wonderful insulator that will be perfect for the medical equipments or the food processing industry.

Make a wise decision regarding the kind of cartridge heater you want to buy! Remember, you have to make it count!

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