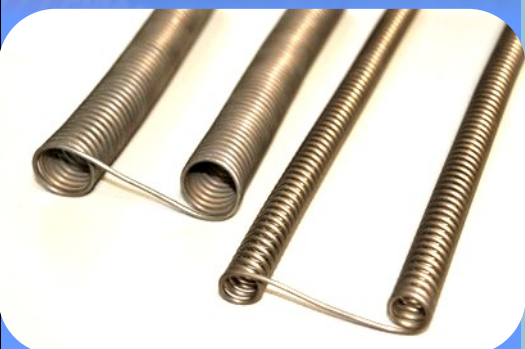
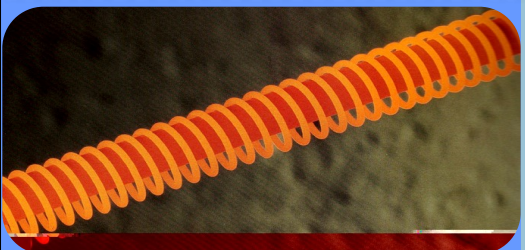
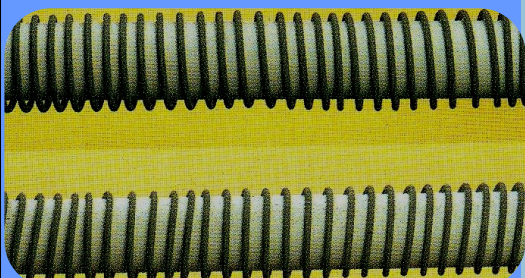


Kiln Elements



Elements Made by HILLDAV. Free quotes given.

PRICE **RETAIL**
NO GST with GST

Price per Element

Standard Hilldav Kiln Elements

\$134.90 **\$148.40**

1 or 2 Standard HILLDAV

or elements of similar size.

\$123.65 **\$136.00**

3 or more Standard HILLDAV

or elements of similar size.

Elements for **SMALL KILNS** Approx. price

\$108.00 **\$118.80** **1 or 2**

\$99.00 **\$108.90** **2 or more**

Elements for **LARGER KILNS** and Elements for 3 sided

(Sides walls & Back wall) Approx. price

\$198.00 **\$217.80** **1 or 2** Larger than Standard Elements

\$181.50 **\$199.65** **2 or more** Larger than Standard Elements

Standard **Multi Sided** Kilns Approx. price

\$144.00 **\$158.40** **1 or 2** Larger than Standard Elements

\$132.00 **\$145.20** **2 or more** Larger than Standard Elements

ELEMENT FASTENERS

\$2.00 **\$2.20 HILLDAV** (Set screw, Nut 3 x washers)

\$36.40 **\$40.05** **TETLOW 'A' Block**

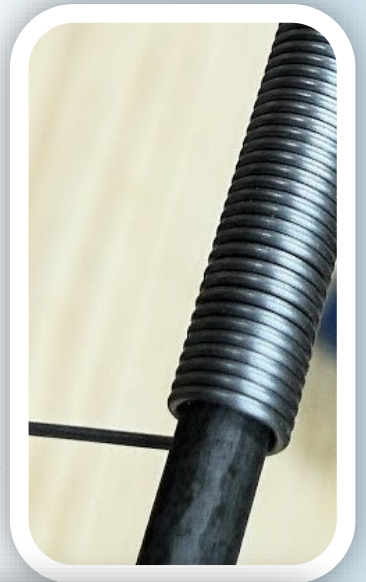
\$31.50 **\$34.64** **Woodrow element fastener**

\$27.00 **\$29.70** **Ward** (S/S strip with 2 x nut, Bolt, Washers)

We can make elements for you !

We continue to make the elements for all the Hildav Kilns and most other makes. So if you need elements for your kiln, we can make them for you.

If we already have the specification for the kiln then no problem, we can make the element, if not then we will either need a sample element (old element) or all the information to enable us to calculate the element. Number of elements in the kiln, KW rating, Amps, 1ph – 2ph – 3ph, Diameter of coil, length of element. Now that e-mailing photos is so easy, a photo of the inside of the kiln and how the elements are connected.



So if you need elements contact us.

ELEMENT LIFE

*Taken from the book **About Pottery Kilns** by C W Hills*

This is a question often asked, how long will the element last? The life of a resistance elements is dependent on service conditions, the kiln atmosphere, temperature the effective radiation, surface load, frequency of operating and the construction of the element.

The atmosphere in the kiln is generated from the ware being fired, most clays for instance have an acid content usually sulphuric acid, this is what causes most of the corrosion to the metal work of the kiln. Glaze often contain harmful compounds which through splashes or vaporisation come into contact with the element.



Collapsed elements are one sign that they need to be replaced.



ELEMENT LIFE

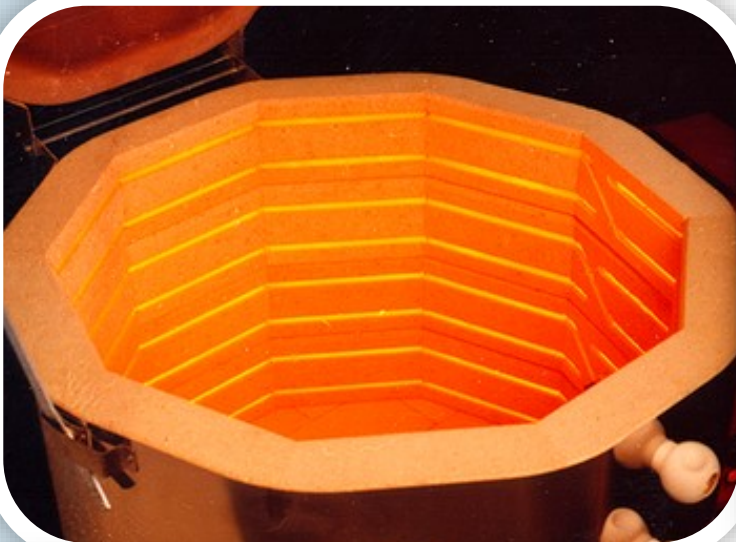
*Taken from the book **About Pottery Kilns** by C W Hills*

Surface load, the electrical and thermal load on the surface of an element is expressed in W/CM sq of W/sq Inch and has a bearing on the temperature the element will reach and its length of life. When determining a suitable size of wire for the element the surface load value plays a very important part.

When two elements of the same rating or wattage are compared the one using a wire that carries a higher surface load can be made from a smaller quantity of wire, but will have a shorter life than the one element using a wire of a lower surface load. In other words initially there is a saving of material in the case of higher surface load, but the element will have to be replaced more often in the view of its shorter life. What we are really saying, the larger the diameter of the wire the longer the life of the element.

The temperature the kiln is fired to has a considerable effect on the life of the element, e.g. Kanthal A1 wire if fired once a week for two years to 1280°C would be equal to six years of 1200°C. See the following diagram for Kanthal wire.

In other words the elements in the kiln are similar to the tyres on a motor car, if you drive at high speed all the time then they will have a much shorter life than if you drive at a steady slower speed. This does not mean you cannot speed if you want to.



Old element that have cradled and bunched.

These element will still work but the heat given off would be very uneven and cause hot and cold spots in the kiln.

