

Modern Motion...

AdrenaLine® – A Space Age Wire

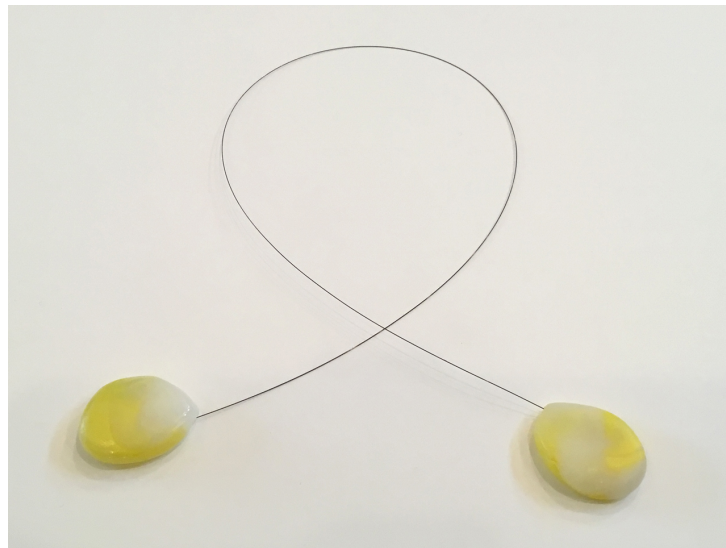
Miga's *AdrenaLine*® is a bizarre new wire made of Nickel-Titanium that stretches when you pull it: sort-of like a spring. But oddly, as you begin stretching, the force reaches a plateau and gets 'easier' for while. If you keep stretching, it gets harder again, until it abruptly stops. When you release the wire, the pattern is repeated in reverse: at lower force levels. You can see the two plateaus in the chart below.

You've probably never even *stretched* a wire before, let alone had it spring back to it's original length when you release it. Neither have we! Even to jaded engineers, this material is very interesting.

As if that isn't strange enough already, we've discovered that the resistance changes with the length: linearly, and in both directions (see the second chart). The resistance changes are repeatable and easily measurable. In this way, the wire could even be used as a highly accurate 'stretch' sensor.

Finally, as if all of that wasn't bizarre enough already, if you hold the wire to your chin as you stretch and release, you can actually feel the wire get warm when you stretch it, and then cool when you release it. This is indication of the so-called *phase change* as the material changes between two different metallic states.

Just for fun, we've made the finger holds out of InstaMorph® which is a reheat-reuse plastic. We urge you to experience *AdrenaLine*® today. You simply have to feel it to believe it!



Miga *AdrenaLine*® with InstaMorph® handles

