



July 17, 2017

Dennis Clements
Sagan Industries, LLC
11035 Technology Place, Suite 100
San Diego, CA 92127

Dear Dennis,

We have run surface tension measurements by the Wilhelmy plate method on a Tantec Processor Surface Tensiometer for four different water samples.

Innovative Formulations manufactures water based chemistry and has never seen any filtration equipment that will lower surface tension, with just passing water through a filter, without chemically modifying the water. The results reported here are from 6 tests we ran in our lab. Our equipment was calibrated by heating the platinum plate to a temperature that purified any impurities on the plate.

The control sample was Tucson tap water from Tucson city water at our lab in Pima County of, Tucson Arizona. This water was tested untreated. We then put it into your 3 gallon Aqua Brick and filtered it according to your pressurization through the filter and spigot method with three different filters employed (each separately).

We took three samples of water filtered with each filter and tested them for surface tension by the Wilhelmy plate method to compare to three tests on the untreated water.

The following surface tensions were determined:


Test #	Unfiltered Tap Water Surface Tension (mN/m)	Large Dura Flow Filtered Tap Water Surface Tension (mN/m)	Journey Filter TAP Water Surface Tension (mN/m)
1	71.40	53.10	53.10
2	71.40	51.70	51.70
3	71.41	52.30	52.30
Average	71.40	52.36	52.36
Std. Dev.	0.01	0.02	0.01

The Tap water control had a surface tension about 18 mN/m above what tap water (source Tucson City Water) has at room temperature, which is 72.5 mN/m.

All of the filters further lower the water's surface tension.

I hope these data are useful for you. If you have any questions about them, or need for further testing please let me know.

Best Regards,



Ian Ornstein
Principal Scientist / President
Innovative Formulations, Inc.