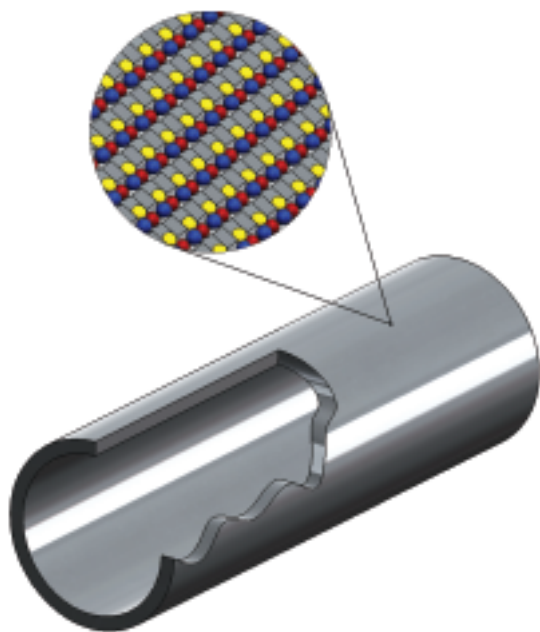


**NEW!!**

# **SPECTRA SHIELD™**

***Introducing a new and exclusive addition to Spectrum Products manufacturing process, Spectra Shield™, maximum corrosion protection for stainless steel!***

***Spectrum is proud to announce that every single stainless steel product that leaves Spectrum's shipping dock starting in 2010 will be protected by Spectra Shield™ !***



*Spectra Shield™ filling in the microstructure on the surface of the stainless steel*

## **Spectrum's Exclusive Spectra Shield™**

Spectrum's own Spectra Shield™ is a proprietary, high quality blend of chemicals formulated for the protection of all grades of stainless steel from moisture and the harsh atmospheric chemicals commonly found in and around the aquatic environment. As shown in the figure at right (for clarity the molecule has been modeled as a red/green/blue dot), Spectra Shield™ works by imbedding itself into the microstructure of the stainless steel surface grain, keeping water and chemicals out of the surface structure. Once the treatment is applied it cannot be removed with water or other cleaning solutions. It does not change the surface appearance nor the feel of the stainless steel product. Most importantly, it is inert once cured, providing for a very safe, yet corrosion resistant stainless steel product.

## **Spectrum Products builds the finest and most corrosion resistant stainless steel products in the aquatics Industry, this is why:**

Spectrum Products uses only domestically made Stainless Steel from select mills located in the United States. The finished product is the finest, because we start with the best steel we can buy.

To this we add an extremely efficient and precise manufacturing process coupled with tight quality control. As an example of the attention to detail, every weld is hand polished to remove surface contaminants that could corrode the product in the field. In all standard products Spectrum utilizes a proprietary three step process, we are the only aquatics manufacturer to electropolish and hot dip passivate our products in-house as part of our standard manufacturing process. Now we are adding a third step to this already ground breaking process, for maximum corrosion resistance, in 2010 we will apply Spectra Shield™ to all stainless products!

## **Spectrum's Total Corrosion Protection manufacturing process**

There are three reasons that we have the best corrosion protection in the industry! First the product is Electropolished by running a large current through the stainless steel in a heated solution, micro polishing the surface. In the second stage the stainless steel is immersed in a heated passivation solution, removing free iron and promoting a chromium oxide film on the surface of the stainless steel. The final step is the application of the new proprietary Spectra Shield™ treatment that will protect the stainless at the microscopic level.

**800.791.8056 ~ Fax: 406.542.1158**

**[www.spectrumproducts.com](http://www.spectrumproducts.com)**