

Xtrema Ceramic Cookware by Ceramcor

We stand behind the Xtrema name and believe that Xtrema is the healthiest and most versatile pure ceramic cookware on the market. No other cookware company shares their “passed” test results but we do. Every product is tested by third-party scientific laboratories in the USA, Hong Kong, and China before it is packaged and shipped to our warehouse in Maryland. You can find those test results here:

<https://www.xtrema.com/pages/product-testing/>

Xtrema is tested for lead and cadmium and is certified by California Prop 65, which is the Gold Standard for testing lead—not an XRF machine. The XRF is used for testing soil and you will find that lead is naturally-occurring in everything, even the air you breathe. You can take an XRF machine to your stove or oven and it will test positive for lead. There are no leachable amounts of lead in Xtrema products because they have to pass California Prop 65.

California Prop 65 - Gold Standard - Valid Test

<https://cdn.shopify.com/s/files/1/2996/3722/files/CaliforniaProp65-2017.pdf>

XRF Product Testing – Not Valid

- 1. XRF Testing:** X-ray fluorescence (XRF) is the emission of characteristic "secondary" (or fluorescent) X-rays from a material that has been excited by bombardment with high-energy X-rays or gamma rays.
XRF Testing is not the industry standard for houseware products testing by the United States Government. Testing done by an XRF device is not authorized for proving the leaching of any heavy toxic metals. California Prop 65 and the FDA laboratory metal extraction test are the testing procedures that must be adhered to in order to test for metal extraction or leaching for lead and cadmium.
- 2.** A person using this device does not make them an accredited testing facility. A person must be certified and accredited through the Consumer Product Safety Commission, which is required for testing, finding and proving the presence of any metal and its leaching. Metal can only be considered toxic if it is absorbed into the body by breathing in contaminated dust, drinking liquids that contain heavy metals, or eating foods that contain heavy metals. There are many organizations and people that also believe that heavy metals are in many of the vaccines that children are now required to receive. Dust, air, water, and foods (and some believe vaccines) are the primary ways that one would become poisoned by heavy metals.
- 3.** The test method for determining total lead in metal products is CPSC-CH-E1001-08.3, which only recognizes X-ray Fluorescence Spectrometry for certain homogeneous

materials with certain limitations and acceptable ranges. XRF Spectrometry must use multiple monochromatic excitation beams (HDXRF). It must be a homogeneous material (a material that consists of uniform composition throughout and is characterized by its inability to be separated mechanically into different materials) and the XRF instrument must meet ASTM F2853-10e1.

4. Many people rent these XRF field testing devices but, because the device itself may not be calibrated correctly, the devices would not even meet the ASTM standard. The required testing protocol for non-homogeneous materials (which this is) is digestion followed by Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES). ICP-MS and FLAA must be used under certain guidelines.

Pamela Turner, PhD, from the University of Georgia, cautions that XRF testing on one product isn't exactly scientific because it involves one test of one product at a time, not the averaged results of a group of products or items.

The XRF also can't determine how much of the lead in a product is coming off of it. "Lead is only dangerous if it is released from a product and is inhaled or ingested," says Tom Neltner, Chemicals Policy Director of the Environmental Defense Fund.

The XRF testing device is not the industry standard for non-homogeneous matter.

California Prop 65 and FDA testing protocol is the gold standard for testing for leachable lead and cadmium. This is the law.

Are XRF handhelds safe?

High-energetic X-rays used in XRF spectrometers are dangerous to health because you cannot see them, feel them, hear them, or smell them. XRF guns or handhelds fall into the category of open-source X-ray equipment and vendors leave the responsibility entirely to the user. All users operating handhelds should be aware of the dangers of direct—and especially indirect—exposure through X-ray scatter. Precautions will need to be taken to prevent scattered X-rays from harming you, your employees, and your surroundings.

Epsilon benchtops are closed X-ray source spectrometers and only operate with full X-ray shielding, guaranteeing safe operation under any circumstance. No need to worry about any potential health and safety claims or expensive lawsuits.

<https://www.malvernpanalytical.com>

The Lead Safe Blogger is bringing awareness to lead toxicity in an old painted house where her young children were poisoned by lead paint. This is very sad and I know firsthand how devastating lead toxicity from leaded paint can be. While she mainly focuses on lead, we

believe and have proof that all metals can be just as toxic as lead, depending on one's genetic make-up and the illness that they are presently fighting. We are the only houseware company that is taking a public stand against the use of metals during the cooking process. In 40 years, not one person has been able to give us one medical, nutritional, or health benefit from using any metal cookware.

Changing How America Cooks, One Home at a Time

Your friends at Xtrema Cookware - ☺ Blessings www.xtrema.com