# nochar's A622
# LEADBOND
## Filtration Media™

**nochar's** commitment to environmentally beneficial products has lead us to introduce a number of new state-of-the-art technology products to industrial and commercial water treatment. One of these new products is **nochar's A622 LEADBOND Filtration Media™**, which is very effective in removing heavy metals, particularly lead, from aqueous streams.

Applications include purification of drinking water where removal of suspected lead contamination is a concern. It has also proved useful in treatment of contaminated waste streams where lead removal is essential for environmental protection and where disposal is costly.

**nochar's A622 LEADBOND Filtration Media™** will not leach trace organics or react with chlorine the way some organic water treatment media can. It can be blended with or used in conjunction with granular activated carbon where chlorine (taste and odor) performance is desired in conjunction with lead removal.

**nochar's A622 LEADBOND Filtration Media™** is an inorganic naturally white ceramic-type material which is available in two forms: the granular product and **nochar's A622 LEADBOND C**, a carbon-bonded powder product that has about one tenth the uptake capacity of the granular form. The C-Type product is used where large filter beds and lower flowrates are required.

Unlike organic ion-exchange materials, **nochar's A622 LEADBOND Filtration Media™** will not dry out, crack and channel,is chemically and thermally resistant, not prone to oxidation, and relatively inert, except for its design function of exchanging innocuous sodium of calcium ions for heavy metals ions such as lead. It is very selective for lead even in the presence of hard water, i.e. in large concentrations of calcium and magnesium ions.

### Typical Properties

| | |
|---|---|
| Form | granules |
| Color | white |
| Contents | 100% active inorganic sorbent |
| Bulk Density | |
| A622 LEADBOND | 60 lb. per cubic foot |
| A622 LEADBOND C | 30 lb. per cubic foot |
| Particle Size | 20/50 mesh |
| Moisture Loss @ 150 C | 17% |
| pH of 1% dispersion | 7-8 |
| Average Lead Uptake | |
| A622 LEADBOND | 2.724 kg/ft$^3$ |
| Average Lead Uptake | |
| A622 LEADBOND C | 136.2 gm/ft$^3$ |

Two specific attributes of **nochar's A622 LEADBOND Filtration Media™** products which differentiates it from competitive materials are: rapid kinetics of uptake - performance even in demanding end-of-tap applications which meet NSF guidelines for lead removal in typical one-second contact times.

High retention of lead once adsorbed - depleted filters containing **nochar's A622 LEADBOND Filtration Media™** will not leach lead, even under the Federal TCLP leachate procedure.

These granules are designed to be mechanically fed into a variety of plug-flow filtration devices, and will fill by gravity. Vibrational assistance is recommended, as with any granular media, to minimize void space.