



# CAMERON GREAT LAKES, INC.

## MOLECULAR FILTRATION SPECIALISTS

### Z100 NATURAL ZEOLITE FILTRATION MEDIA

**DESCRIPTION** Buff or off-white granules of an alumino-silicate based natural mineral. Standard particle sizes are 4 x 6 mesh and 6 x 8 mesh. Custom mesh sizes available.

**APPLICATIONS** Natural zeolites have desirable selective ion exchange and adsorption properties. Clinoptilite, such as CGL Z-100, can be used for removal of the following:

- radionuclides from radioactive wastewater
- ammonia from wastewater
- toxic & heavy metals from industrial process water and wastewater (e.g. metal finishing & secondary metals operations).

Z-100 can be effective in the removal of the following metals from aqueous solutions:

aluminum	Antimony	arsenic	barium	cadmium
calcium	chromium	cobalt	copper	iron
lead	magnesium	manganese	mercury	nickel
selenium	silver	tin	zinc	

Note—The selectivity of zeolite for metals depends on numerous factors including the hydration, channel dimensions, and exchangeable cation composition of the zeolite and the pH, temperature, composition and concentration of the solutions to be treated. A bench “jar” test or pilot study is highly recommended.

### **PROPERTIES OF Z-100**

Cation exchange capacity	2.20 meq/g
Bulk density (treated)	55 lbs/cu ft
Hardness Mohs scale	5.1
Pore size	4.0A
Thermal Stability	1202° F
Specific surface area	40 sq m/g
Crushing strength	2500 lbs/sq in

*This information has been gathered from standard reference materials and/or test procedures and is believed to be true and accurate. It is offered solely for your consideration and verification. None of the information presented shall be construed as constituting a warranty or representation, expressed, written, or implied, for which we assume legal responsibility or that the information or goods described is fit for any particular use either alone or in combination with other goods or processes, or that its use does not conflict with existing patent rights. No license is granted to infringe on any patent rights or practice any patent invention.*

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