



# CellGuard®35 Magnesium Oxide for Pulp Bleaching

<b>DESCRIPTION</b>	CellGuard 35 is a high purity magnesium oxide processed from magnesium-rich brine and dolomitic lime. This fine white powder has a high reactivity index and a low bulk density. It contains lower levels of transition metals as compared to naturally occurring minerals.		
<b>USES</b>	CellGuard 35 can be used as a cellulose protector in oxygen bleaching systems, as an alkali source in mechanical and recycled pulp peroxide bleaching, and as a partial substitute for caustic soda in the extraction stages of chemical pulp bleaching.		
<b>CHEMICAL AND PHYSICAL PROPERTIES</b>	<b><u>Dry Solids Basis</u></b>	<b><u>Typical</u></b>	<b><u>Specification</u></b>
	MgO purity, %	98.2	97.0 min.
	Fe, %	0.10	0.22 max.
	Mn, ppm	140	160 max.
	Cu, ppm	1.5	6.0 max.
	Loss on Ignition, %	2.0	3.0 max.
	Median Particle Size, microns	3 – 8	---
	% Passing 325 mesh	99	95 min.
	Loose Bulk Density, lb/ft <sup>3</sup>	22	---
<b>EQUIVALENTS</b>	<b>(All Chemicals Shown on 100% basis)</b>		
	MgSO <sub>4</sub> =	1.00 lb Equivalent to 0.33 lb MgO	
	NaOH =	1.00 lb Equivalent to 0.50 lb MgO	
<b>PACKAGING</b>	Martin Marietta Magnesia Specialties offers a variety of packaging options, including bulk (truck and railcar), bags, and bulk sacks. Please contact a sales representative for information on available packaging options.		
<b>STORAGE</b>	Store in dry place. Exposure to moisture may cause caking.		

NOTICE: THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. ANY RECOMMENDATIONS OR SUGGESTIONS MADE ARE WITHOUT WARRANTY OR GUARANTEE OF RESULTS SINCE CONDITIONS OF HANDLING AND OF USE ARE BEYOND OUR CONTROL; WE THEREFORE, ASSUME NO LIABILITY FOR LOSS OR DAMAGE INCURRED BY FOLLOWING THESE SUGGESTIONS. SELLER WARRANTS ONLY THAT THIS PRODUCT WILL MEET THE SPECIFICATIONS SET FORTH. ANY OTHER REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, IS SPECIFICALLY DISCLAIMED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY. SELLERS AND MANUFACTURERS ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT PROVED TO BE DEFECTIVE. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR USERS INTENDED APPLICATION AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN TORT, CONTRACT OR UNDER ANY THEORY FOR ANY LOSS OR DAMAGE, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

## Martin Marietta Magnesia Specialties, LLC

8140 Corporate Drive, Suite 220  
Baltimore, Maryland 21236 USA  
Phone: (800) 648-7400 or (410) 780-5500  
Fax: (410) 780-5777  
Email: [MagChem@martinmarietta.com](mailto:MagChem@martinmarietta.com)  
[www.magnesiaspecialties.com](http://www.magnesiaspecialties.com)



CellGuard® is a trademark of  
Martin Marietta Magnesia Specialties, LLC

QUALITY SYSTEM  
ISO 9001 CERTIFIED