

 NSF

*Quality Drinking Water Treatment Media
for Corrosion Control, pH Adjustment, and Remineralization.*



Imerys Calcium Carbonate

Tested and Certified by NSF

PERFORMANCE MINERALS

 IMERYS

Quality Assured

Imerys' NSF Certified Calcium Carbonate media, also known as calcite, is prepared from naturally occurring, high-quality marble.

*...prepared
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marble*

On private water systems, one of the most common causes of corrosion is low pH (< 7.0) waters. Treatment is accomplished by neutralizing the water - passing acidic water through granular calcium carbonate is the most common method utilized.

Many forms of calcite media are available on the market. However, not all are safe for use in drinking water. Next time you are shopping for water treatment media, be sure to ask for Imerys' calcium carbonate products that have been tested and certified by NSF International to NSF/ANSI Standard #60. Imerys chooses to work with NSF International to help ensure you and your customers live safer.

Common Uses:

- *pH Adjustment*
- *Corrosion Control*
- *Remineralization of Desalinated Water*

Key Benefits:

- *Uniform Particle Size*
- *Cost Effective*
- *Slower Reacting*

Imerys NSF Certified Calcium Carbonate Products

40-200™ NSF

Marble Hill, GA
Sylacauga, AL

30-50™ NSF

Marble Hill, GA

XO White™ NSF

Marble Hill, GA

Z White™ NSF

Marble Hill, GA

OZ White™ NSF

Marble Hill, GA



TAKE HEART.

The World Health Organization (WHO) recently examined the impact of drinking water on human health.

Their report concluded:

- *The hypothesis that consumption of hard water is associated with a somewhat lowered risk of cardiovascular disease was probably valid.*
- *Stabilization of demineralized and corrosive drinking water should be done where possible with additives that will increase or reestablish calcium and magnesium levels.*

These findings may lead to the establishment of minimum health-based guideline values for calcium and/or magnesium in the future editions of the WHO Guidelines for Drinking Water Quality.

Source: World Health Organization. *Nutrients in Drinking Water*, 2005.

Customer Driven

Acidic waters slowly dissolve calcium carbonate media on contact to raise the pH. This reduces the potential leaching of copper, lead, and other metals found in typical plumbing systems. Periodic backwashing will prevent packing and maintain service rates. As calcite neutralizes water, it will increase the hardness of the water.



Conditions for Operation:

- *A gravel support bed is recommended*
- *Water pH range: 5.0-7.0*
- *Typical CaCO₃ bed depth: 30 in.*
- *Minimum freeboard: 50% of bed depth*
- *Backwash rate: 8-12 gpm/sq. ft.*
- *Backwash bed expansion: 35% of bed depth*
- *Service flow rate: 3-6 gpm/sq.ft. (varies depending on local conditions)*

TYPICAL VALUES

Grade	40-200™ NSF	30-50™ NSF	XO White™ NSF	Z White™ NSF	OZ White™ NSF
Source	Marble Hill, GA Sylacauga, AL	Marble Hill, GA	Marble Hill, GA	Marble Hill, GA	Marble Hill, GA
Mesh	1% Plus 40 14% Minus 200	1% Plus 30 15% Minus 50	1% Plus 16 10% Minus 40	1% Plus 40 7% Minus 20	3% Plus 6 3% Minus 14
Bulk Density					
Loose	90	90	90	95	85
Packed	115	105	105	105	95

All Products

% CaCO ₃	95
% Acid Insolubles	2
% SiO ₂	0.3
% Moisture	0.15
Hardness (Mohs)	3
Index of Refraction	1.6
Specific Gravity	2.7
Solid Density (lb/gal)	22.7

CAS No. 1317-65-3

Customer Driven Product Development

Imerys is committed to working with customers to develop products designed to meet their application. If there are specific applications that require a product characteristic not offered by Imerys' current portfolio of products, Imerys will consider the opportunity for their new product development process. Imerys brings its unique knowledge of mineral technology, combined with unrivaled depth of application expertise to improve the formulation of its customers' products. Its laboratories are equipped with state-of-the-art technical and scientific equipment for studying minerals and all aspects of their applications.

Imerys utilizes a gated new product development process that is tailored to the complexity of the development. For product extensions or modifications, a three step process is used to speed time to market. New to the world products require a more detailed five step process. Customer input is essential throughout the development process.

Please contact Imerys if you have a need that is not met by our current product portfolio. We look forward to the opportunity to work with you.



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Live Safer.™



Customer Driven

As a global leader in white mineral processing, Imerys constantly strives to supply its customers with the highest level of products and services. With global production facilities, Imerys is able to offer its wide product portfolio to customers on a truly global basis.

Imerys is able to respond to the needs of producers by providing product solutions that not only meet customers existing but also future requirements. Successful partnerships are based on long lasting relationships with Imerys' experienced technicians who support the business through their extensive knowledge of raw materials, formulations and the latest in processing technology.

Imerys takes pride in offering customer oriented service. It ensures that it fully understands the individual customer needs by establishing and maintaining close working relationships. Application expertise is always available to help provide solutions for the development and supply of calcium carbonate.

Environmental Policy

Imerys is committed to being a good neighbor to the environment, and it takes this responsibility very seriously. Imerys views it as sound commercial practice to take care of the environment and issues such as pollution and land reclamation are strictly observed. An environmental policy is backed up by extensive training programs and considerable investment.



Serving customers worldwide

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