



SPECIALTY MINERALS

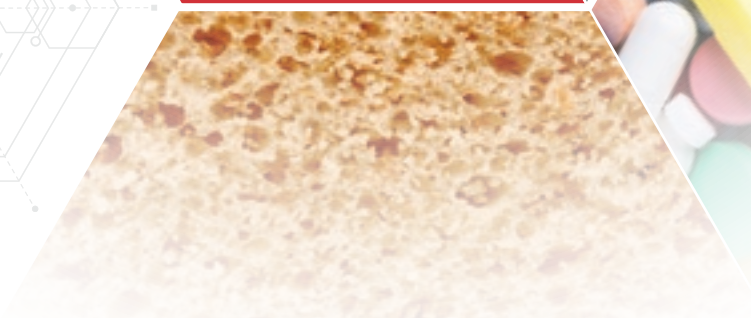
CALCIUM MARKET LEADERSHIP

HUBER SPECIALTY MINERALS PROVIDES
HIGH PERFORMING CALCIUM CARBONATES
TO SURPASS THE REQUIREMENTS
OF MANUFACTURERS IN MANY
ESSENTIAL APPLICATIONS
AND INDUSTRIES.

HUBER SPECIALTY MINERALS

HUBERCAL®

NUTRI GRANULATIONS®



As the only North American supplier to produce both calcium carbonate powders and granulations, we have unparalleled control over the quality and reliability of our calcium supply chain. Huber Specialty Minerals is a trusted nutritional ingredient supplier offering our exclusive HuberCal® and Nutri Granulations® naturally occurring and pure calcium carbonate products. Huber also offers the production of active pharmaceutical ingredients (APIs).

**ENHANCING
LIVES THROUGH
NATURALLY OCCURRING
CALCIUM CARBONATE**

**A PASSION FOR SERVING OUR CUSTOMERS WITH
THE HIGHEST QUALITY PRODUCTS AND
SUPERIOR TECHNICAL AND CUSTOMER
SERVICE HAS DRIVEN US TO CREATE
A MARKET-LEADING HEALTH
AND NUTRITION BUSINESS.**

Huber's processed nutritional ingredients begin with consistency and purity. This dedication to our products starts with a deep understanding and appreciation of cGMP guidelines and reviews. We stay abreast of changes in FDA and USP procedures. During the manufacturing process, our innovative HuberCal® and Nutri Granulations® product portfolio goes through a rigorous and thorough screening and testing process to ensure you get only the highest-quality formulations. Our Quality Assurance Program ensures superior customer service.

HUBERCAL®
Pure and Natural Calcium Carbonate

**OUR STRATEGIC
MANUFACTURING
LOCATIONS**

Quincy
Illinois

La Mirada
California

NUTRI
GRANULATIONS

CALCIUM CARBONATE, SODIUM BICARBONATE, AIR-FLOAT KAOLIN, AND ATTAPULGITE CLAY ARE AMONG THE MOST WIDELY USED MINERALS TODAY. THESE NATURAL RESOURCES ARE EXCEPTIONALLY PURE AND VERSATILE. OUR PROCESSES ARE CERTIFIED TO ISO STANDARDS TO ENSURE CONSISTENT, HIGH-PERFORMANCE PRODUCTS TO SUIT YOUR NEEDS.



TYPICAL PRODUCT CONCENTRATION

CALCIUM CARBONATE	99.4 %
MAGNESIUM + ALKALI SALTS	0.4 %
ACID INSOLUBLES	0.1 %
LOSS ON DRYING	0.1 %
FLUORIDE	20 µg/g
BARIUM	30 µg/g
IRON	30 µg/g
CHLORIDES	< 330 µg/g
SULFATES	< 0.25 %
CRYSTALLINE QUARTZ	0.02 %

TYPICAL FOOD GRADE CALCIUM CARBONATE APPLICATIONS INCLUDE:

BREAKFAST CEREAL

BAKED FOODS

FORTIFIED BEVERAGES

COOKIES & CRACKERS

SOUPS & SAUCES

FOOD PROCESSING

NUTRITIONAL BARS

THE HUBERCAL[®] CALCIUM CARBONATE ADVANTAGE



HUBER PACKAGING CAPABILITIES INCLUDE:

BULK SACKS

BULK TRUCK

50 LB SACKS

HuberCal[®] calcium carbonate powder is a naturally occurring pure source of calcium. It is the ideal ingredient for use in dietary supplementation for food fortification, granulations, antacids and other various pharmaceutical applications. HuberCal[®] is a naturally occurring mined, ultra-pure form of calcium carbonate with typical assays greater than 99% - to meet demanding industry standards. HuberCal food grade (FG) calcium carbonate grades meet the requirements specified by the Food Chemical Codex. HuberCal[®] USP, Elite and Elite + grades meet the requirements of the US Pharmacopeia (USP) and can be used in the most critical applications.

Choosing the most effective food grade calcium product in a formulation is a critical decision. FG calcium carbonate has the highest concentration of elemental calcium – 40% by weight. Many studies have shown that calcium from calcium carbonate in food is readily absorbed by the body. Because of this, HuberCal[®] calcium carbonate is more economical to use and the food additive provides the nutritional properties required by formulators.

HUBERCAL[®] TYPICAL PHYSICAL PROPERTIES

	Bulk Density Loose	Surface Area BET	D50 (Micron)	D98 (Micron)	Screen Residue 325 Mesh
HUBERCAL 150	1.2 g/cc	0.9 m ² /g	20	--	35 %
HUBERCAL 250	1.1 g/cc	1.1 m ² /g	10	--	40 %
HUBERCAL 500	0.9 g/cc	1.2 m ² /g	6	--	0.1 %
HUBERCAL 850	0.7 g/cc	1.7 m ² /g	4	< 20	0.0 %
HUBERCAL 950	0.7 g/cc	1.7 m ² /g	3.6	< 18	0.0 %

*The typical physical properties are not specifications.

INDUSTRY LEADING LOW-LEAD, MERCURY AND ARSENIC IMPURITIES

Consumers are increasingly concerned with lead and heavy metals ingestion. The HuberCal[®] product family helps formulators to address this concern. HuberCal[®] calcium carbonate is industry leading in low lead, mercury and arsenic versus competitive calcium carbonates. The HuberCal[®] Elite and Elite + product specifications confirm confidence in an industry low lead level of below 0.12 (µg/g) and cadmium at 0.5 (µg/g) - significantly lower than competitive products.

HUBERCAL[®] TYPICAL PRODUCT PROPERTIES

Bowl of cereal

Calcium carbonate granules

Cartons of HuberCal

MINERAL	FCC	USP	ELITE	ELITE+
Calcium Carbonate	> 98%	> 98%	> 98%	> 98%
Loss on Drying	< 2%	< 2%	< 2%	< 2%
Mg and Alkali Salts	< 1%	< 1%	< 1%	< 1%
Acid Insolubles	< 0.2%	< 0.2%	< 0.2%	< 0.2%
Lead	< 0.5 ppm	< 0.25 ppm	< 0.12 ppm	< 0.12 ppm
Arsenic	< 3 ppm	< 1 ppm	< 0.5 ppm	< 0.5 ppm
Cadmium			< 1ppm	< 0.5 ppm
Mercury	--	< 0.5 ppm	< 0.5 ppm	< 0.5 ppm
Barium	--	Pass	Pass	Pass
Iron	--	< 1000 ppm	< 200 ppm	< 200 ppm
Fluoride	< 50 ppm	< 50 ppm	< 50 ppm	< 50 ppm
Chlorides	--	--	< 330 ppm	< 330 ppm
Sulfates	--	--	< 0.25%	< 0.25%
E - 170 Monograph	--	--	Pass	Pass
FG products powder used meet Food Chemical Codex (FCC)		USP products powder used meet U.S. Pharmacopeia (USP)		Elite products meet EP Pharmacopeia (EP) and E170

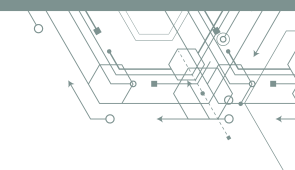


LIMIT OF DETECTION	TYPICAL PRODUCT CONCENTRATION
Cadmium (Cd)	ICH-Q3D CLASS 1
0.1 µg/g	0.7 µg/g
Lead (Pb)	ICH-Q3D CLASS 1
0.05 µg/g	0.08 µg/g
Arsenic (As)	ICH-Q3D CLASS 1
0.05 µg/g	0.06 µg/g
Mercury (Hg)	ICH-Q3D CLASS 1
0.05 µg/g	0.05 µg/g
Cobalt (Co)	ICH-Q3D CLASS 2A
1 µg/g	1 µg/g
Vanadium (V)	ICH-Q3D CLASS 2A
1 µg/g	4 µg/g
Nickel (Ni)	ICH-Q3D CLASS 2A
1 µg/g	12 µg/g

ANALYTIC METHOD USED: ICP-MS

THE HUBERCAL[®] CALCIUM CARBONATE ICH-Q3D ADVANTAGE

HuberCal[®] USP and Elite Grade calcium carbonate products offer formulators their best option to comply with ICH-Q3D. Huber's experienced technical staff also has the background and expertise to help address your risk assessment needs. HuberCal[®] calcium carbonate is available in powder and granulation form - in FG, USP, ELITE, and ELITE + grades. HuberCal[®] offers a combination of outstanding performance, high purity and exceptional value vs. other calcium carbonates.



HUBER GRANULATION CAPABILITIES

The HuberCal® granulated calcium carbonate line-up is manufactured from pure and naturally occurring limestone sources. At Huber Specialty Minerals, as a top calcium carbonate supplier, quality is an important ingredient in all of our products. With Huber's expanded granulation manufacturing capability, Huber calcium carbonate FG, USP, ELITE, and ELITE + grades are engineered to exact specifications and great care is taken to ensure you get a product you can count on for superior purity, performance, consistency, and quality.

HUBERCAL®
Pure and Natural Calcium Carbonate

PARTICLE SIZE

Through 16 Mesh **100%**
On 60 Mesh **75%**
Through 200 Mesh **15%**

NUTRI
GRANULATIONS®

NUTRI GRANULATIONS

HUBERCAL® AND NUTRI GRANULATIONS® TYPICAL MINERAL PROPERTIES

MINERAL	FCC	USP	ELITE	ELITE+
Calcium Carbonate	> 92.4%	> 92.4%	> 92.4%	> 92.4%
Loss on Drying	< 2%	< 2%	< 2%	< 2%
Mg and Alkali Salts*	< 1%	< 1%	< 1%	< 1%
Acid Insolubles*	< 0.2%	< 0.2%	< 0.2%	< 0.2%
Lead*	< 0.5 ppm	< 0.25 ppm	< 0.15 ppm	< 0.15 ppm
Arsenic*	< 3 ppm	< 1 ppm	< 0.5 ppm	< 0.5 ppm
Cadmium*	--	--	< 1ppm	< 0.5 ppm
Mercury*	--	< 0.5 ppm	< 0.5 ppm	< 0.5 ppm
Barium*	--	Pass	Pass	Pass
Iron*	--	< 1000 ppm	< 200 ppm	< 200 ppm
Fluoride*	< 50 ppm	< 50 ppm	< 50 ppm	< 50 ppm
Chlorides*	--	--	< 330 ppm	< 330 ppm
Sulfates*	--	--	< 0.25%	< 0.25%
E - 170 Monograph	--	--	Pass	Pass

Bulk Density Loose = 0.8 to 1.2 g/cc

FG products powder used meet Food Chemical Codex (FCC)

USP products powder used meet U.S. Pharmacopoeia (USP)

Elite products meet EP Pharmacopoeia (EP) and E170

* = Based on source powder

THE HUBERCAL® AND NUTRI GRANULATIONS® CALCIUM GRANULATION ADVANTAGE

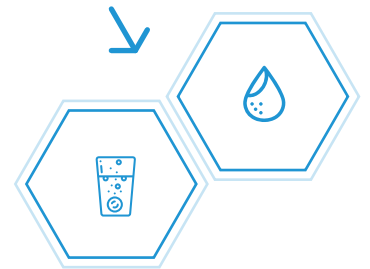
Huber's naturally-occurring mined calcium carbonate and coral calcium, marketed under the HuberCal® and Nutri Granulations® brands, is naturally low in lead and manufactured under strict cGMP standards. Huber's extensive experience in formulating a binder system in powder blends to make compressible powders; essential to the tableting process allows us a competitive advantage in the marketplace.

Huber Specialty Minerals is also aware of the sensory qualities of HuberCal and the effect on oral dosage forms of vitamins and supplements. Huber has engineered and improved sensory characteristics specifically in chewable tablets. Huber's unique granulation technology, based on a continuous and customizable process, achieves consistent large production runs of specialized products out of two uniquely positioned manufacturing sites to meet customer demand.



HUBER GRANULATION PRODUCT OFFERING INCLUDES:

- Calcium coral granulation
- Maltodextrin is the most popular binder
- Other binder systems are available by request
- Products are available in 25 KG bags or bulk bags
- Granulations are normally 95% calcium carbonate / 5% binder
- Granulations are available that use both FG, USP, ELITE and ELITE + Calcium Carbonate





IT'S TIME TO WORK WITH US!

It's time for you to consider
HuberCal® and Nutri Granulations®
calcium carbonates in your next
FCC, USP, and EP formulation.
In addition to our broad product
line of calcium powder and
granulation products, we
provide unsurpassed customer
care and technical service.

Contact Huber today for
more information and to
order samples of our high
performing HuberCal and
Nutri Granulations calcium
carbonate products. We look
forward to working with you.



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SPECIALTY MINERALS

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