Ascom Carbonate & Chemicals Manufacturing
“ACCM IS A LEADER IN THE PRODUCTION OF GROUND CALCIUM CARBONATE SINCE 2009.”
ASCOM GROUP

A subsidiary of ASEC for mining, a pioneer in the Egyptian and the MENA market in the domain of geology and mining for over 25 years, ACCM is a leader in the production of ground calcium carbonate (GCC).

Since beginning production in 2009 ACCM has developed a reputation for market success and supplies different industries around the world.

Our Vision & Mission

We provide our clients with high value and cost-effective products, produced using the highest ethical, environmental, and safety standards. Regarded by many as the quality standard in the industry, our products are critical components for the paper, plastics, paints, coatings, and construction industries.

“Our AIM IS TO SUPPLY THE BEST QUALITY GCC PRODUCTS THAT WILL ENSURE AN INDISPENSABLE ADDED VALUE FOR OUR CUSTOMERS AND SHAREHOLDERS THROUGH OUR COMMITTED AND INNOVATIVE TEAM AND THE UTILIZATION OF OUR HIGH QUALITY MINERAL RESERVES.”
PRODUCTION, QUALITY & PASSION

As a company, we listen to our customers and understand their actual market needs today and in the future.

To ensure the highest level of quality, we employ state-of-the-art technologies such as Alpine Hosokawa in our milling plant. Our products, which range from lump form to superfine grades of 70% < 2 microns, are sold under the ACCM trademark and exported to all corners of the world. Our primary production line consists of an apron feeder, a primary crusher and two secondary crushers with a total capacity of more than 500 kilotons per year, and a vibrating screen. The crushed product is then stored in a 500-ton silo to await transportation to our plant for further milling. We have carefully selected a team of dedicated and experienced geologists who have the passion to not only provide the best quality products possible, but also to actively monitor market trends that will help guide both our business and that of our customers into a brighter future.

“WE ARE CONSISTENTLY INVESTING IN RESEARCH AND IMPLEMENTING NEW MANUFACTURING METHODS TO ENHANCE BOTH OUR INTERNAL EFFICIENCY AND MAINTAIN OUR POSITION IN THE GLOBAL MARKET.”

Compliance standards

ACCM has met the requirements as described in ISO 9001 and currently holds an ISO 9000 for Quality Management System (QMS). The ISO 9001:2015 is focused on meeting customer expectations and delivering customer satisfaction. We are also registered and accredited from the AJA (Anglo Japanese American Registrars) and the ANAB.
EGYPT: OUR HOME

Egypt’s calcium carbonate is the best in the world.

The flagship of our operations and the key to our success lies in the Minya Region of Upper Egypt, home to one of the world’s largest and highest quality limestone deposits with brightness levels of 97% and a CaCO₃ content of 99.2%. As a result of this invaluable resource base we are able to provide tailor-made products, such as exceptionally high-brightness materials, for our key global customers.
Additionally, in the past 10 years we have increased our market share in the export of calcium carbonate and our products are used in manufacturing across Asia, the Middle East and Africa region, all achieved in close coordination with our international partners. Our products are sold directly through our sales team or through our distributors network.

As the future unfolds, ACCM seeks to explore new opportunities, develop its portfolio and reach out to new markets.

“ACCM HAS BEEN SELECTED BY THE WORLD’S LARGEST PRODUCERS OF PLASTICS AND PAINTS TO BE THEIR MAJOR SUPPLIER FOR HIGH QUALITY LIMESTONE IN THEIR PRODUCTION FACILITIES.”
We are present in over 20 countries in the world.
SUSTAINABLE DEVELOPMENT

Health, Safety and Environment.

“WE STRONGLY BELIEVE THAT SAFETY IS NOT JUST ABOUT THE WORKPLACE BUT IS A CRUCIAL PART OF THE BASIC CULTURE OF THE COMPANY.”

A safe working environment for all of our people is our highest priority as a company. We are constantly and actively developing our HSE program to continue to improve in all areas, working with a number of external experts to help guide us to the latest and most effective safety training. We set challenging safety goals for all of our people and encourage the development of this culture at all levels within the company.

OUR PEOPLE

Our people are our greatest asset and we believe strongly in helping them achieve their full potential and actively contribute to develop their careers through training, development and ongoing support and coaching.

Our policy is to provide our people with the tools and skills that they need in order to excel in all that they do. By adopting this approach, ACCM can offer an exceptional level of service to customers thus achieving a mutual long term relationship and establishing our position as their number one supplier.

“We strongly believe that safety is not just about the workplace but is a crucial part of the basic culture of the company.”
APPLICATIONS

PAINTS, COATINGS & ADHESIVES

Filler for paints and coatings,
Road marking and traffic paint

The pride of ACCM is in the paints industry, where our ultra fine, top grade Ground Calcium Carbonate is used as a filler due to its competitive pricing, ease of availability, and desired physical properties such as high brightness, weather resistance, low oil absorption and dispersibility. We provide the best grades in the global market. The high-brightness calcium carbonates are often chosen for ceiling paints and other areas requiring high dry hiding.

ACCM also offers a variety of calcium carbonate grades providing the different paints and coatings products with improved characteristics and enhancements for opacity, and gloss control.

Ground Calcium Carbonates are also found in road-markings and traffic paint, allowing governments and municipalities around the world to cut costs while still meeting the ideal optical specifications for the finished product.

GROUND CALCIUM CARBONATE IS USED AS A FILLER DUE TO ITS COMPETITIVE PRICING, EASE OF AVAILABILITY, AND DESIRED PHYSICAL PROPERTIES SUCH AS HIGH BRIGHTNESS, WEATHER RESISTANCE, LOW OIL ABSORPTION AND DISPERSIBILITY.

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<tr>
<th>Normal Ground Calcium Carbonate</th>
<th>Ascom 17</th>
<th>Ascom 20</th>
<th>Ascom 25</th>
<th>Ascom 30</th>
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<td>Top Cut (D97)</td>
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<td>18</td>
<td>12</td>
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<td>18</td>
<td>18.5</td>
<td>18.5</td>
<td>20</td>
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</table>

**Product Data**

- Gloss
- Semi-Gloss
- Matt
- Undercoats & Primers

**Water Based Architectural Paints**

- Gloss
- Semi-Gloss
- Matt
- Undercoats & Primers

**Industrial Coating**

- Metal Primers
- Powder Coating
- Road Marking Paints

**Ink**

- Printing Inks
01 Decorative Paints

Interior & Exterior Emulsion paints:
- ASCOM 20
- ASCOM 25
- ASCOM 30
- ASCOM 40
- ASCOM 50
- ASCOM 60
- ASCOM 70
- ASCOM 80

Lacquer Paints:
- ASCOM 30
- ASCOM 40
- ASCOM 50
- ASCOM 60
- ASCOM 70
- ASCOM 80

02 Industrial Coatings and Inks

The natural calcium carbonate is known for its low oil absorption, low abrasiveness and anti-corrosion properties which makes it an important ingredient in the domain of industrial coatings.

Top Coats:
- ASCOM 20
- ASCOM 25
- ASCOM 30

Powder Coating:
- ASCOM 20
- ASCOM 25
- ASCOM 30

Road Markings:
- ASCOM 20
- ASCOM 30

Enamels:
- ASCOM 30
- ASCOM 40
- ASCOM 50

Inks:
- ASCOM 40
- ASCOM 50
- ASCOM 60
- ASCOM 70
- ASCOM 80

03 Adhesives and Sealants

Ground calcium carbonate is not only an economic filler but, is considered as a booster to some important characteristics such as mechanical properties and sagging resistance for the adhesives and sealants profile.

Powder Coating:
- ASCOM 20
- ASCOM 50
- ASCOM 25
- ASCOM 60
- ASCOM 30
- ASCOM 70
- ASCOM 40
- ASCOM 80
In paper coating applications, calcium carbonate is used to make a brighter sheet. For paper filling applications, calcium carbonate can improve the whiteness of the sheet and reduce costs by replacing expensive fiber and pigments. The chemical properties of calcium carbonate are used to produce non-acidic paper.

01 Fillers
Ground calcium carbonate is generally recognized for having the best potential as an economic filler-for-fiber substitution. Calcium carbonate also provides advantages in high strength, easier drainage and productivity.

02 Coating Pigments
The technical and economic advantages of calcium carbonate as paper coating pigments achieve high brightness, low binder demand, better run-ability, excellent printability and desired gloss.
Ground Calcium Carbonate, the main mineral found in limestone, marble, and chalk, is also a popular additive in plastic manufacturing including injection molding, blow molding, and extrusion coating. It also allows polymers to heat and cool faster, resulting in higher productivity, output, and faster conversion for plastics producers.

In addition, the use of GCC in plastics production reduces energy use during the manufacturing process, therefore minimizing the carbon footprint and greenhouse gas impact of finished plastic products.

<table>
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<tr>
<th>Product Data</th>
<th>PVC Compound</th>
<th>Masterbatch</th>
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<td>Top Cut (D97)</td>
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<td>Mean Particle Size (μm)</td>
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<td>Plastic Film</td>
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<td>Brightness</td>
<td>Cables</td>
<td>Plastic sheets</td>
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<td>Coating Level</td>
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<table>
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<th>Coated Ground Calcium Carbonate</th>
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<td>Ascom 20T</td>
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<td>Top Cut (D97)</td>
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<td>Mean Particle Size (μm)</td>
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<tr>
<td>Brightness</td>
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<tr>
<td>Coating Level</td>
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</tbody>
</table>
01
Cables
Ground calcium carbonate (GCC), treated with stearic acid is a desired ingredient in PVC cable formulations due to its economic advantage and its characteristics that contribute to achieving the desired electrical, mechanical and thermal properties.

ASCOM 50T ASCOM 60T

ASCOM 20T ASCOM 30T
ASCOM 40T ASCOM 50T

02
Pipes & Fittings
ACCM products with fine particle size and stearate coating give good mechanical and optical properties with the required toughness and tensile strength for this application.

ASCOM 50T ASCOM 60T

ASCOM 30T ASCOM 40T
ASCOM 50T

04
Master Batch

ASCOM 40T ASCOM 50T

ASCOM 30T ASCOM 50T
ASCOM 40T

04
Rubber Moldings & Extrusions
ACCM products with their exceptional whiteness, good dispersion and low oil absorption properties are an excellent filler for these applications.

ASCOM 30T ASCOM 50T
ASCOM 40T
In construction, GCC has two major applications in concrete and asphalt. For concrete, GCC promotes self-compacting properties, creating a product with better workability, increased strength and an improved appearance. When mixed with asphalt, it acts as a sand modifier to reduce the resistance of the mixture and provide a consistent material that is easier to work with.

**APPLICATIONS CONSTRUCTION**

**Self-compacting Concrete, Asphalt**

**GROUND CALCIUM CARBONATE PLAYS A MAJOR ROLE IN PRECAST CONCRETE INDUSTRY THANKS TO ITS SELF COMPACTING PROPERTIES.**

**GROUND CALCIUM CARBONATE IS A KEY COMPONENT IN ASPHALT APPLICATIONS, IT PROVIDES A CONSISTENT MATERIAL THAT IS EASIER TO WORK WITH.**

**01 Putties**

Used as an extender to TiO2 to increase volume and as cost effective filler, GCC is also used as filler for putties.

**Filler for putties:**
- ASCOM 20

**TiO2 Extender:**
- ASCOM 40  ASCOM 70
- ASCOM 50  ASCOM 80
- ASCOM 60
APPLICATIONS

AGRICULTURE

Animal / Poultry Feed
Livestock Nutrition

GCC is an essential mineral for the growth, development, and production of livestock and domestic animals and plays an important role in maintaining health, particularly when more natural feed is not available. Therefore, farmers look to GCC as a calcium supplement for their animals, both for its high quality and cost effectiveness.

GROUND CALCIUM CARBONATE PLAYS AN IMPORTANT ROLE IN MAINTAINING HEALTH PARTICULARLY WHEN MORE NATURAL FEED IS NOT AVAILABLE. FARMERS LOOK TO GCC AS A CALCIUM SUPPLEMENT FOR THEIR ANIMALS.

01

Animal Feed

These products are used for animal feeds and are also used in the alkaline treatment of soil.
The glass industry uses GCC often because it contains minimal levels of contaminants detrimental to the manufacturing process. In particular, it has a low level of iron (typically < 0.02%) along with a consistent level of magnesium (typically < 1%). The limestone produced by ACCM can therefore have both an attractive economic and environmental benefit to glass producers.

**APPLICATIONS**

**GLASS MANUFACTURING**

Low-contaminant, economic glass manufacturing

Calcium carbonate is an acid-soluble bridging and weighty agent for controlling fluid loss and density. It can be used in fluids ranging from conventional oil-base and water-base drilling fluids, to workover and completion fluids.
02
Ceramic
The usage of these products will increase the water absorption and help as a flux together with feldspar.

ASCOM 4  ASCOM 8
ASCOM 7  ASCOM 10

03
Foam & Latex
Calcium Carbonate is used as functional filler with other foaming additives to strengthen and prolong the life of carpet-backing.

ASCOM 10

04
Waterproofing
Calcium Carbonate is used as hydrophobic functional filler.

ASCOM 7  ASCOM 10
ASCOM 8
GCC is also used to help protect the environment, removing harmful emissions and pollutants from the air, such as NO₂ and NO₂ from the burning of coal and other fossil fuels in a process called flue gas desulphurization. Additionally, GCC is used in lakes and rivers to raise the pH level and de-acidify natural bodies of water, making it safer for wildlife and humans alike.

**APPLICATIONS**

**ENVIRONMENTAL PROTECTION**

*Flue Gas Desulphurization (FGD)*  
*De-acidifying Lakes, Rivers, and Soil*

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<tr>
<th>GCC IS USED IN LAKES AND RIVERS TO RAISE THE PH LEVEL AND DE-ACIDIFY NATURAL BODIES OF WATER.</th>
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**GROUND CALCIUM CARBONATE REMOVES HARMFUL EMISSIONS & POLLUTANTS FROM THE AIR, SUCH AS NO₂ AND NO₂ FROM THE BURNING OF COAL AND OTHER FOSSIL FUELS IN A PROCESS CALLED FLUE GAS DESULPHURIZATION.**
Factory:
First Cell - Third Sector - Industrial Zone
El-Metahra, Nile East, Minya, Egypt
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