




# 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).

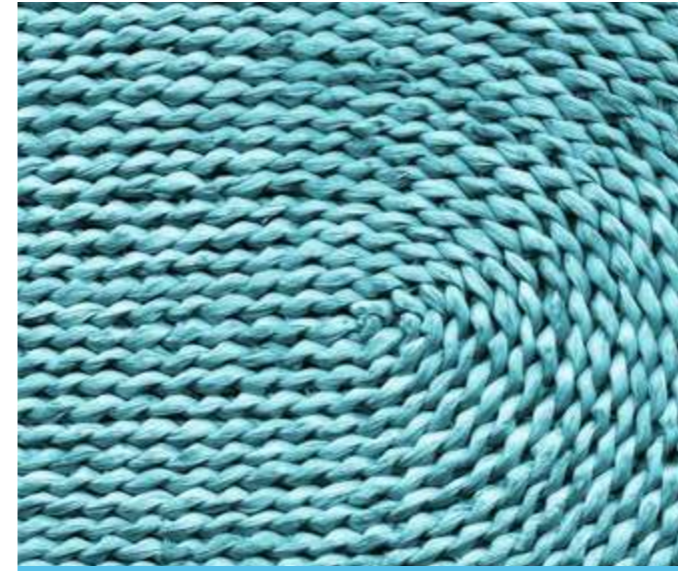
Since beginning production in 2009 ACCM has developed a reputation for market success and supplies different industries around the world.

## 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.



MASTER BATCH

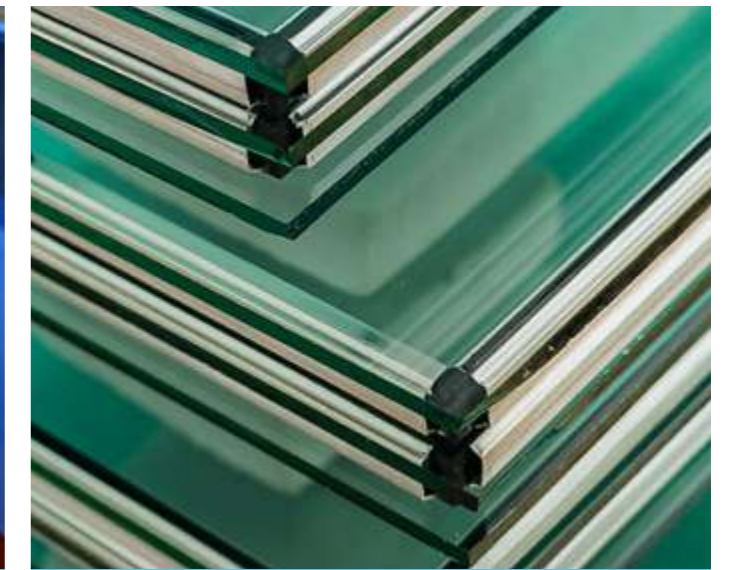


RAFFIA

“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.”



PAINTS



GLASS



PAPER



CONSTRUCTION

# 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.



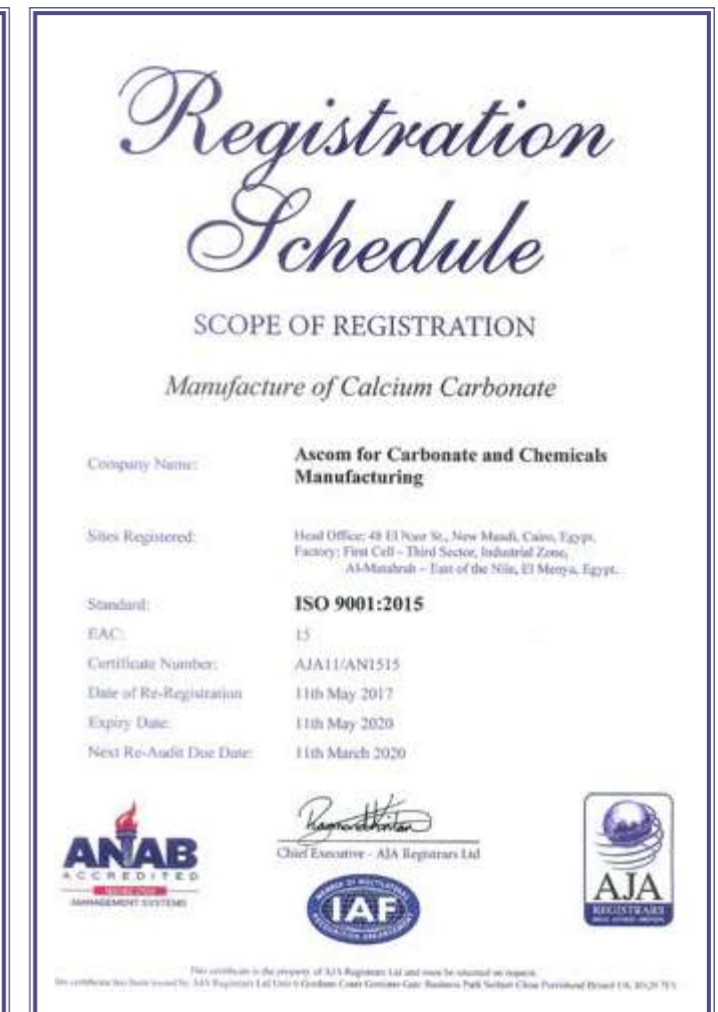
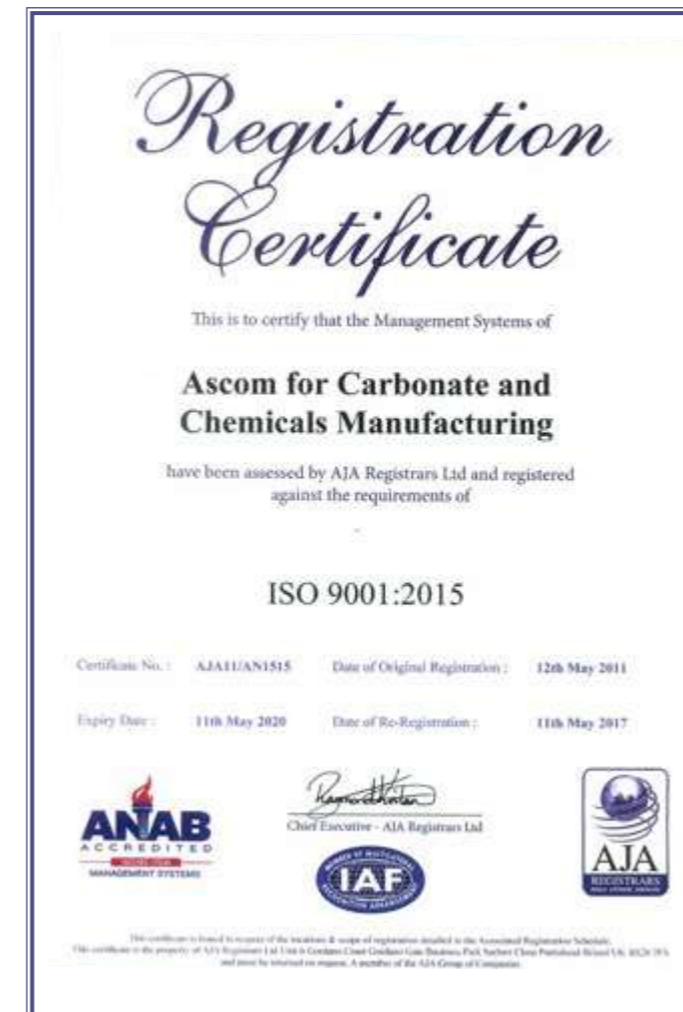
“WE ARE CONSISTENTLY INVESTING IN RESEARCH AND IMPLEMENTING NEW MANUFACTURING METHODS TO ENHANCE BOTH OUR INTERNAL EFFICIENCY AND MAINTAIN OUR POSITION IN THE GLOBAL MARKET.”



### 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 CaCO<sub>3</sub> 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.



Hermopolis, Ashmunein - El Minya, Egypt



## OUR SPECIFICATION

Characteristic	Value
CaCO <sub>3</sub>	99.18%
Fe <sub>2</sub> O <sub>3</sub>	0.01%
MgO	0.05%
SiO <sub>2</sub>	0.09%
Al <sub>2</sub> O <sub>3</sub>	0.04%
Density	2.7g / ml
Brightness	Min 98.5%
Whiteness	Min 99.3%
Hardness	3 Mohs

**“MINYA REGION OF UPPER EGYPT, HOME TO ONE OF THE WORLD’S HIGHEST QUALITY LIMESTONE DEPOSITS.”**

# OUR MARKETS & PARTNERS

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

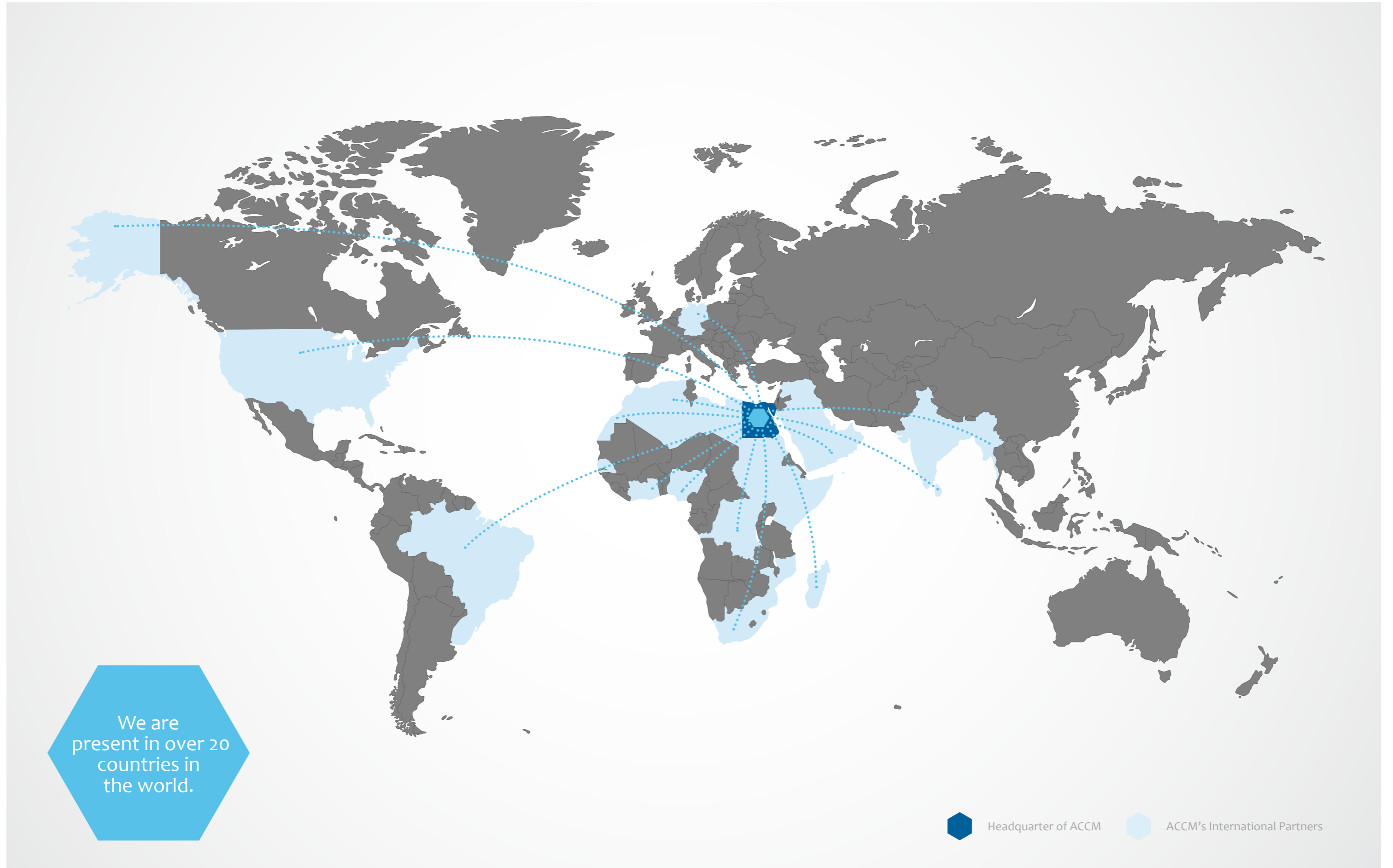


Additionally, in the past 10 years we have increased our market share in the export of calcium carbonate and our products are used in manufacturing across Asia, the Middle East and Africa region, all achieved in close coordination with our international partners. Our products are sold directly through our sales team or through our distributors network.



**“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.

Headquarter of ACCM ACCM's International Partners



# 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.



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.



		Normal Ground Calcium Carbonate							
		Ascom 17	Ascom 20	Ascom 25	Ascom 30	Ascom 40	Ascom 50	Ascom 60	Ascom 70
Product Data	Top Cut (D97)	35	24	20	18	12	8	5	4
	Mean Particle Size (µm)	7	6	5	4.5	3	2.5	1.8	1.6
	Brightness	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	Oil absorption (g/100g)	15	18	18.5	18.5	20	21	22	23
water Based Architectural Paints	Gloss							Hexagon	Hexagon
	Semi - Gloss					Hexagon	Hexagon	Hexagon	
	Matt	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon			
	Undercoates & Primers	Hexagon	Hexagon						
Based Architectural Paints	Gloss					Hexagon	Hexagon	Hexagon	
	Semi - Gloss					Hexagon	Hexagon	Hexagon	
	Matt	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon		
	Undercoates & Primers	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon		
Industrial Coating	Metal Primers	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon		
	Powder Coating	Hexagon	Hexagon	Hexagon	Hexagon	Hexagon			
	Road Marking Paints	Hexagon	Hexagon			Hexagon			
Ink	Printing Inks						Hexagon	Hexagon	



# 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 40
- ASCOM 25    ASCOM 50
- ASCOM 30

### Powder Coating:

- ASCOM 20    ASCOM 40
- ASCOM 25    ASCOM 50
- ASCOM 30

### Inks:

- ASCOM 40
- ASCOM 50
- ASCOM 60
- ASCOM 70
- ASCOM 80

### Enamels:

- ASCOM 30
- ASCOM 40
- ASCOM 50

### Road Markings:

- ASCOM 20
- ASCOM 30

# 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



## APPLICATIONS

**PAPER***Fillers, Coating Pigments*

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.

GROUND CALCIUM CARBONATE IMPROVES THE WHITENESS OF THE SHEET AND REDUCES COSTS BY REPLACING EXPENSIVE FIBER AND PIGMENTS.

**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.

ASCOM 60

ASCOM 80

ASCOM 70

**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.

ASCOM 60

ASCOM 80

ASCOM 70



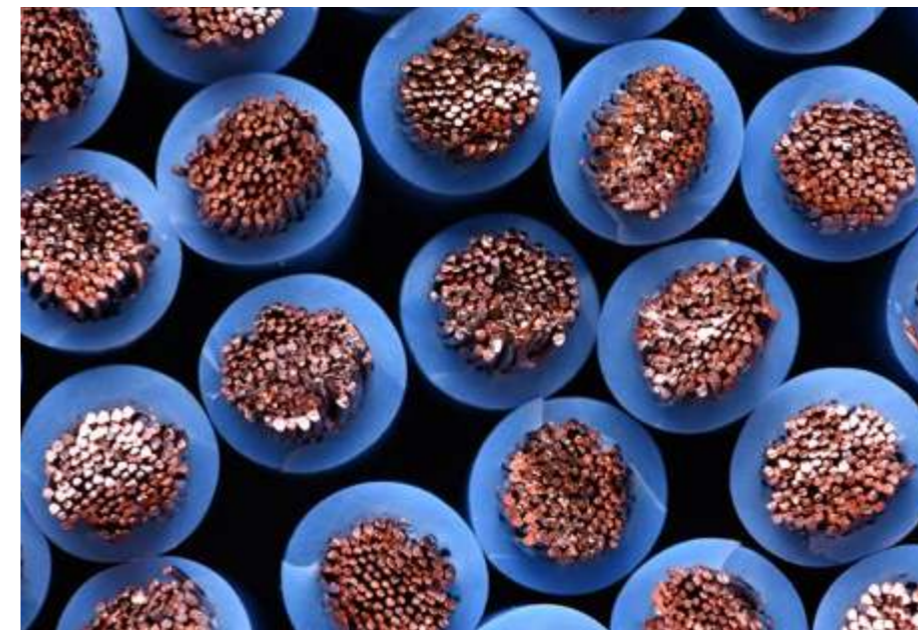
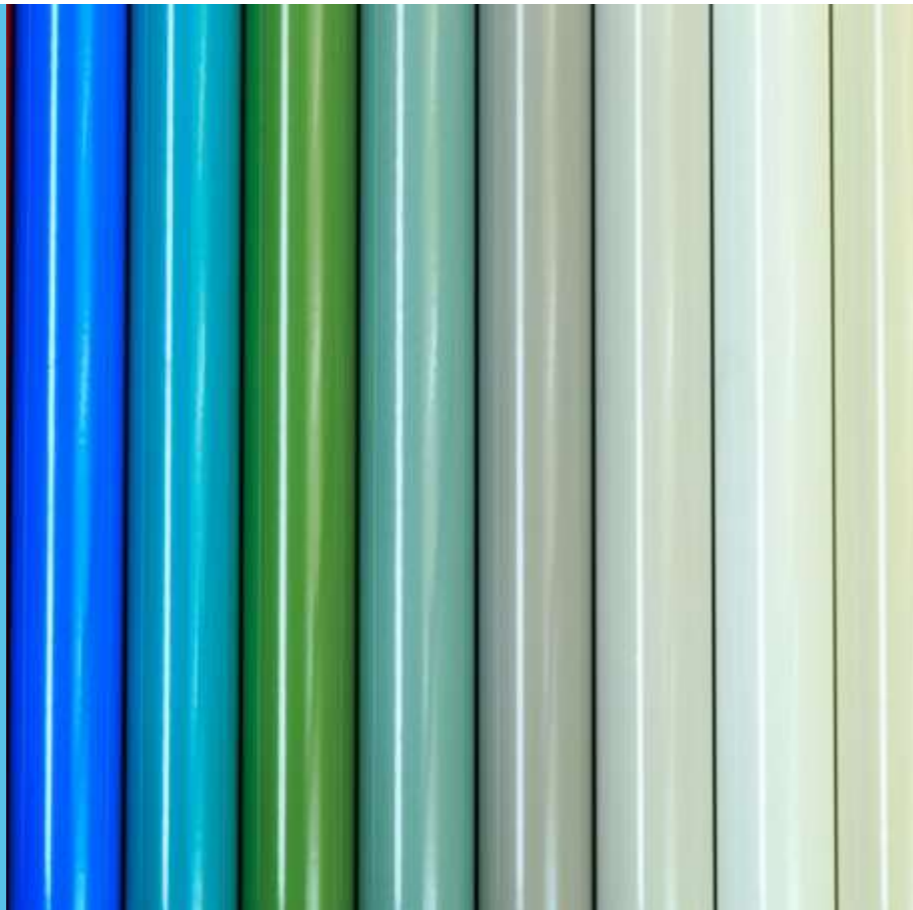
# APPLICATIONS PLASTICS

*Injection molding, blow molding and extrusion coating*

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.

**GROUND CALCIUM CARBONATE IN PLASTICS PRODUCTION REDUCES ENERGY USE DURING THE MANUFACTURING PROCESS, THEREFORE MINIMIZING THE CARBON FOOTPRINT AND GREENHOUSE GAS IMPACT OF FINISHED PLASTIC PRODUCTS.**



**GROUND CALCIUM CARBONATE ALLOWS POLYMERS TO HEAT AND COOL FASTER, RESULTING IN HIGHER PRODUCTIVITY FOR PLASTIC PRODUCERS.**

		Coated Ground Calcium Carbonate					
		Ascom 20T	Ascom 30T	Ascom 40T	Ascom 50T	Ascom 60T	Ascom 70T
Product Data	Top Cut (D97)	24	18	12	8	5	4
	Mean Particle Size (µm)	6	4.5	3	2.5	1.8	1.6
	Brightness	98.8	98.8	98.8	98.8	98.8	98.8
	Coating Level	0.8	0.9	1.1	1.2	1.3	1.4
PVC Compound	PVC Pipe & Fitting	✓	✓	✓			
	PVC Profile		✓	✓	✓		
	Cables				✓	✓	✓
	PVC Flooring			✓	✓		
Masterbatch	Plastic Molding			✓	✓		
	Plastic Film			✓	✓	✓	✓
	Plastic sheets			✓	✓		



# 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



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



# 04

## Master Batch

ASCOM 40T ASCOM 50T



# 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

## APPLICATIONS

# CONSTRUCTION

## Self-compacting Concrete, Asphalt

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.

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 TiO<sub>2</sub> to increase volume and as cost effective filler, GCC is also used as filler for putties.

Filler for putties:

ASCOM 20

TiO<sub>2</sub> Extender:

ASCOM 40

ASCOM 50

ASCOM 60

ASCOM 70

ASCOM 80



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.

ASCOM 3  
ASCOM 5

ASCOM 6  
ASCOM 10





APPLICATIONS

# GLASS MANUFACTURING

*Low-contaminant, economic glass manufacturing*

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.

ASCOM 4    ASCOM 6  
ASCOM 5

GROUND CALCIUM CARBONATE CONTAINS MINIMAL LEVELS OF CONTAMINANTS DETRIMENTAL TO THE MANUFACTURING PROCESS. THE LIMESTONE PRODUCED BY ASCOM CAN THEREFORE HAVE BOTH AN ATTRACTIVE ECONOMIC & ENVIRONMENTAL BENEFIT TO GLASS PRODUCERS.



01

## Oil Additives

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.

ASCOM 2    ASCOM 6  
ASCOM 3    ASCOM 9  
ASCOM 4    ASCOM 10  
ASCOM 5

## 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 &amp; 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



APPLICATIONS

# ENVIRONMENTAL PROTECTION

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

GCC is also used to help protect the environment, removing harmful emissions and pollutants from the air, such as NO<sub>2</sub> and SO<sub>2</sub> 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.

ASCOM 1      ASCOM 10  
ASCOM 2

GROUND CALCIUM CARBONATE REMOVES HARMFUL EMISSIONS & POLLUTANTS FROM THE AIR, SUCH AS NO<sub>2</sub> AND SO<sub>2</sub> FROM THE BURNING OF COAL AND OTHER FOSSIL FUELS IN A PROCESS CALLED FLUE GAS DESULPHURIZATION.



GCC IS USED IN LAKES AND RIVERS TO RAISE THE PH LEVEL AND DE-ACIDIFY NATURAL BODIES OF WATER.



		Ascom 1	Ascom 2	Ascom 3	Ascom 4	Ascom 5	Ascom 6	Ascom 7	Ascom 8	Ascom 9	Ascom 10
	100% Passing	6mm	4mm	3mm	2mm	1.5mm	-	60µm	60µm	500µm	250µm
Agriculture	Poultry Feed			●							
	Animal Feed		●	●							
	Animal Nutrition		●	●							
Construction	Self Compacting Concrete							●	●	●	
	Glazing									●	●
	Cement	●	●								
	Road Marking							●	●		
	Asphalt		●	●							
	Ceramic				●	●		●	●		
	Putty							●	●		
Glass	Colourless Glass				●	●					
	Bottle Glass				●	●					
Environmental	Flue-Gas Desulphurisation				●	●					
	De-Acidify Lakes, Rivers & Soil				●	●					





**Factory:**

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El-Metahra, Nile East, Minya, Egypt

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