EGKT

EGYPTIAN KUWAITI CO.

For Work Concerning Mines & Quarries

Mr. Sherif Mohamed
Executive Manager

WELCOME MESSAGE

EGKT Company is specialized in processing Calcium Carbonate and Talcum powder from Minya and Aswan in Egypt, which is worldwide known for the high quality resources to be processed in our factories in Minya, uber Egypt.

We started in 2010; our team gained a unique experience in R&D based on Know-how in machinery that allowed us to supply our customers with a wide range of products that used in different applications with a high quality at an economic cost, our team has dedicate research to assure supplying high quality products in each application from opacity in paints to great mechanical behavior in extrusion.

Our main markets are in the middle-east, Asia and Africa, our products are sold by our fast-responding sales team.

Sherif Mohamed

Mission

Our business model is based on producing a wide portfolio of products derived from calcium carbonate. Research, development and innovation in products according to our clients demand and requirement. Whish allows us to offer the best quality/price ratio and service in markets all around the world.

Vision

The Company objective since it was set up has been to become one of the top-quality and most competitive manufacturer of calcium carbonate especially in those with the highest benefit.

Thanks to our managerial effort, our policy of reinvesting profit, joint research with our customers and constant monitoring of the market to achieve the highest level of our client confident.

Values

Scientific study, innovation and cost reduction

Quality Control

Our interest is quality:

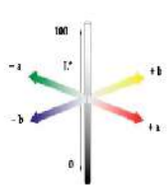
EGKT quality Mission shall support our overall Vision by assuring that our products, services meet our customers' needs, and our Calcium carbonate improvement (Purity, stability, constancy, packing, ...).

We achieve this aim by implementing, maintaining and continuously improving quality management systems.

These systems are based on the following test principles and results:

1- Malvern Mastersizer 3000E Particle Size Analyser
Mesuring of Particle Size Distribution (PSD) using Laser rays.

2- Sedigraph
Mesuring of Particle Size Distribution (PSD) using Laser rays



3- Data color
For measurement of whi teness, Brightness and yellowness

4- Air Jet
To mesure sieve residue

5- Dryer
To get moisture content calculation

6- ACCURIS Analytical Balance
High accuracy reaches to 0.0001

7- SONICS Vibra-Cell Ultra Sonic Device:
Super fine products suspending in Sodium HexaMeta Phosphate Solution.

8- Sieve-analysis-testing

Calcium Carbonate Mine

Calcium carbonate is a chemical compound with the formula $CaCO_3$. It is a common substance found in rocks as the minerals calcite and aragonite (most notably as limestone, which contains both of those minerals). Calcium carbonate is a white, odorless powder or colorless crystals. Practically insoluble in water. Calcium carbonate is one of the most widely used minerals today. It has many uses in a wide variety of industrial and commercial applications. Calcium carbonate is the most widely used mineral in the paper, plastics, paints and coatings industries both as a filler – and due to its special white color – as a coating pigment.

Calcium carbonate crusher products can be used in many manufacturing like:

- Glass
- Animal feed
- Ceramic
- Environment protection
- Water proofing
- Compacting concrete
- Fiber glass

Crusher Products

Product	PSD	Glass manufacturing	Animal & Polertry feed	Ceramic manufacturing	Environment protection	Water proffing manufacturing	Compacting concrete	Fiber glass manufacturing
EG 2	2-3 mm		√					
EG 5	1-2 mm	√						
EG 6	0.5-1 mm	√						
EG 9	0.5 mm	√						
EG 10	200 µ			√	√		√	√
EG 11	125 µ			√		√	√	√

Normal Products

EGKT Norml Products Sizes				Paints & Powder coatings	Adhesives & Sealants	Paper	Inks
Product	PSD						
	Top Cut π	D50 - μ	< 2 μ %				
EG 10	45			√	√		
EG 17	25	5.5-6.5	20%±2	√	√		
EG 20	19-21	4.5-5.5	24%±2	√	√		
EG 25	15-18	4.0-4.5	27%±2	√	√		
EG 30	14-16	3.0-3.5	30%±2	√	√		
EG 35	12-13	2.7-2.9	35%±2	√	√		
EG 40	10-11	2.5-3.0	40%±2	√	√		
EG 45	8.5-9.5	2.0 - 2.5	45%±2	√	√		
EG 50	7.5- 8	1.8-2.2	50%±2	√	√		√
EG 55	6.5-7.5	1.7-1.9	52-55%±2	√	√	√	√
EG 60	5-6	1.5-1.7	58-62%±2	√	√	√	√
EG 70	4-5	1.2-1.4	66-70%±2	√	√	√	√

- All types of paints & Powder coatings

Calcium carbonate can significantly improve paint properties such as sheen, opacity (covering power) and wear resistance. Industrial coatings are primarily used for protection against potentially adverse environmental conditions, with the focus on durability.

- Adhesives & Sealants.

Ground calcium carbonate is frequently used as a rheology modifier, filler to lower costs, tensile strength enhancer, toughening agent, opacifier, and/or whitening agent in adhesives, caulks, and sealants. Additionally, silica is frequently used to adhesive compositions as an extender.

- Paper

Used as a filler or coating pigment in the production of paper from a pulp containing a significant amount of mechanical pulp.

- Inks

Application: Precipitated Calcium Carbonate is used as an extender and opacifying agents in INK industry such as Printing Ink to control stability and imparts brightness. It has Aragonite structure with different particle size distribution and apparent densities.

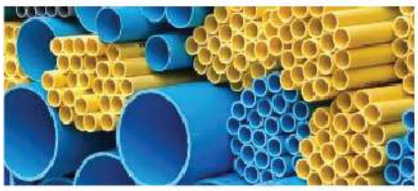
Coated Products

EGKT Coated Products Sizes				PVC Pipes and fittings	Electrical Cables	Master batch	Rubber	PVC woven
Product	PSD							
	Top Cut π	D50 - μ	< 2 μ %					
EG 20T	19-21	4.5-5.5	24%±2	√				
EG 25T	15-18	4.0-4.5	27%±2	√				
EG 30T	14-16	3.0-3.5	30%±2	√				
EG 35T	12-13	2.7-2.9	35%±2	√		√		√
EG 40T	10-11	2.5-3.0	40%±2	√		√		√
EG 45T	8.5-9.5	2.0 - 2.5	45%±2	√	√	√	√	√
EG 50T	7.5- 8	1.8-2.2	50%±2		√	√	√	√
EG 55T	6.5-7.5	1.7-1.9	52-55%±2		√	√	√	
EG 60T	5-6	1.5-1.7	58-62%±2		√	√	√	
EG 70T	4-5	1.2-1.4	66-70%±2		√		√	

- Plastic:
Calcium carbonate is an additive used to increase the elasticity, viscosity and heat resistance of plastics. Calcium carbonate is commonly used in the manufacture of plastic products

- Electrical Cables:
Cables are manufactured from solid materials or stranded copper core & aluminum core. Previously fire resistant cable shell are made from PVC plastic, it is flammable, while fire, it creates smoke and waste large amounts of toxic gases, endanger human life. Using Calcium Carbonate is GREAT SOLUTION for this problem

- PVC Pipes and fittings:
Compound CaCO3 is widely used to create durable rigid PVC pipes and fittings that withstand high pressure and have a smooth surface while manufacturers can shorten production time and save costs.



- Master batch:
Calcium carbonate filler master batch is the most effective cost-saving solution for worldwide plastic processors.
CaCO3 filler master batch not only cuts down plastic production costs by replacing a part of virgin polymer during extrusion, injection and blow molding, but also increases output, improves production conditions as well as a number of physical and chemical properties of finished plastic products.

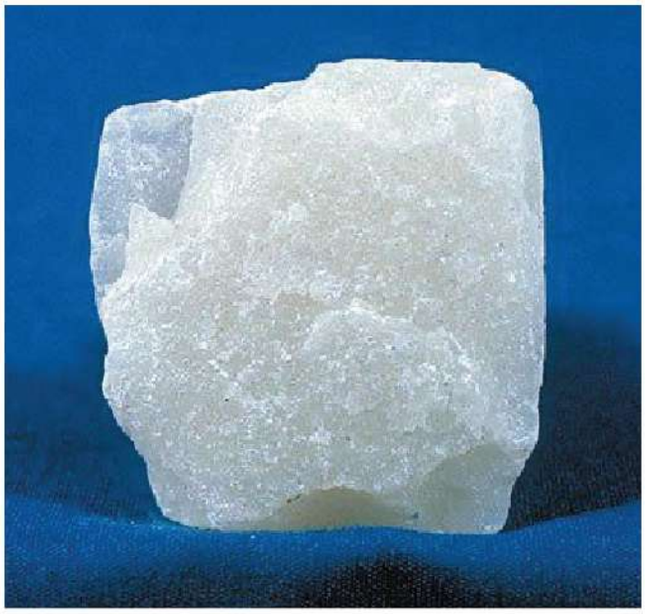
- PVC Filler
Calcium Carbonate (CaCO3) is one of the most popular mineral fillers used in the plastic industry. It is widely available around the world, easy to grind or reduce to a specific particle size, compatible with a wide range of polymer resins and economical.

- Rubber:
Fillers have been widely used in the rubber industry for many applications such as tile floor, vehicle tire, etc. Calcium carbonate (CaCO3) is one of the important inorganic powders and it is widely used as filler in order to reduce the cost in rubber industry.

- PVC Woven
PVC woven for packaging sector, including advances in resins and The use of mineral fillers calcium carbonate, can improve productivity and reduce costs.

TALC Products

Talc, in its pure form, is a hydrated magnesium silicate and has the chemical formula $3MgO.4SiO_2 \cdot 3H_2O$. The exact composition of talc depends on the location of mining, since talc from different mining locations may contain significantly different proportions of MgO, SiO_2, and H_2O. Talc has a layered plate structure consisting of a magnesium hydroxide layer sandwiched between two silica layers. These three layers are held together by weak chemical bonds of Van der Waals type and, therefore, they can slide past each other relatively easily when subjected to shearing action.



Talc is the softest mineral filler used in the plastics industry. It has high resistivity, low gas permeability, low abrasiveness, and high lubricity. All of these qualities are attributed to talc's platey structure. The aspect ratio of talc fillers is as high as 20:1. Talc with a high aspect ratio has shown reinforcement ability in high-density polyethylene, polypropylene, and other thermoplastics, especially when they are treated with coupling agents to promote better bonding with these polymers.

EGKT TALC Products:
1- EG Talc C20 Grade
20 Micron
2- EG Talc C45 Grade
45 Micron

EGYPTIAN KUWAITI for work concerning MINES & QUARRIES (EGKT).

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