minerals

Artemyn

MINERALS

A unique range of mineral-based products for the Cable & Wire industry.

ARTEMYN is proud to present a distinctive and comprehensive family of mineral formulations, meticulously engineered and exclusively tailored for the demanding requirements of various wire and cable applications.

SILVER | Top 15% ecovadis Sustainability Rating JUL 2025

Artemyn is in the top 15% among all companies assessed by EcoVadis reflecting our global efforts to sustainability management with transparency.

Metakaolin

About Metakaolin

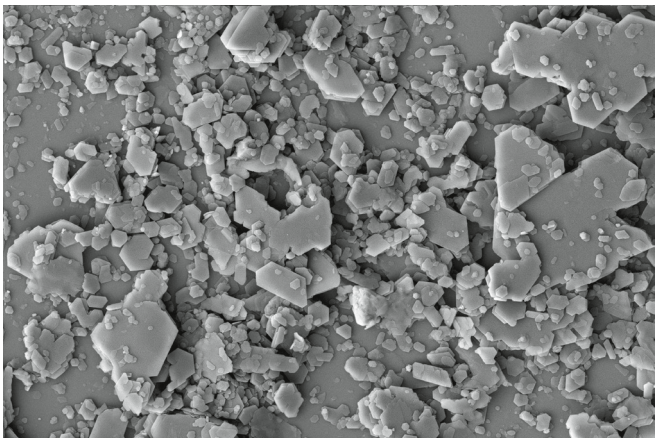
This specialized metakaolin is produced through the controlled thermal activation of high-purity kaolin clay. This precise thermal treatment process alters the molecular structure of the kaolin, transforming it into metakaolin and unlocking its unique performance characteristics. The result is a material that, when incorporated into PVC formulations, contributes to improved dielectric strength, reduced water absorption, and enhanced mechanical strength, ultimately leading to more durable and reliable wire and cable products. Its non-toxic nature also makes it a preferred choice for applications where safety and environmental considerations are paramount.

Applications/Benefits

- Improve volume resistance (Insulation Resistance) This is critical for preventing leakage of electric current and maintaining the integrity of the electrical insulation
- Enhanced Physical and Mechanical Properties
- **Thermal stability** of PVC composites

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
Elastomyn MK	88	0.7	Low Voltage Cables PVC Sheathing	High reactivity performance

Calcine Kaolin



About Calcine Kaolin

A high-performance functional mineral solution in the Medium and high-voltage cable insulation polymer compounds (like PVC, PE, and EVA) used for wire and cable insulation and jacketing. It is essential for enhancing the electrical, physical, and thermal properties of the cable material.

Applications/Benefits

- Superior Electrical Insulation
- Enhanced Physical Properties
- Thermal and Chemical Resistance

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
Artemaxx JS	93	1.5	Medium/High Voltage EPDM Insulation	Functional pigments with exceptional electrical properties
Artemaxx JR	93	0.7		

Flame Retardant Synergist

About Our Flame Retardant Synergist

Non-Toxic and Non-Halogen Flame Retardant Synergis additive that is combined with a primary flame retardant (FR) to enhance its efficiency. The goal of using a synergist is to achieve a higher level of fire resistance or to meet fire safety standards (like low smoke and low toxicity).

Applications/Benefits

- A strong char promoter. It catalyzes the formation of a carbonaceous (char) layer on the burning surface
- Smoke Suppression, barrier, limiting the diffusion of oxygen and combustible gases

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
Elastomyn FR-1	88	1.5	ATH/MDH based FR Synergist PVC cable EVA/PE (LSZH cable)	Non-Toxic, Non-Halogenated, Non-Brominated ATH/MDH Synergist to provide excellent char performance
Elastomyn FR-2	88	0.6	ATH/MDH based FR Synergist PVC cable EVA/PE (LSZH cable) Epoxy (electronics, coatings)	Non-Toxic, Non-Halogenated, Non-Brominated ATH/MDH Synergist to provide excellent char performance
Elastomyn FR-3	88	0.7	Phosphate based FR Synergist PP (HFFR, cable & molding) APP (intumescent) Phenolic PA6 / PA66 (nylons) PLA / bio-polymers	Non-Toxic, Non-Halogenated, Non-Brominated ammonium polyphosphate (APP) Synergist to provide excellent char performance

High Performance Acid Scavenger

About Our High Performance Acid Scavenger

Used as co-stabilizers and acid scavengers, particularly in PVC systems. Offer a different chemical structure and mechanism for acid capture.

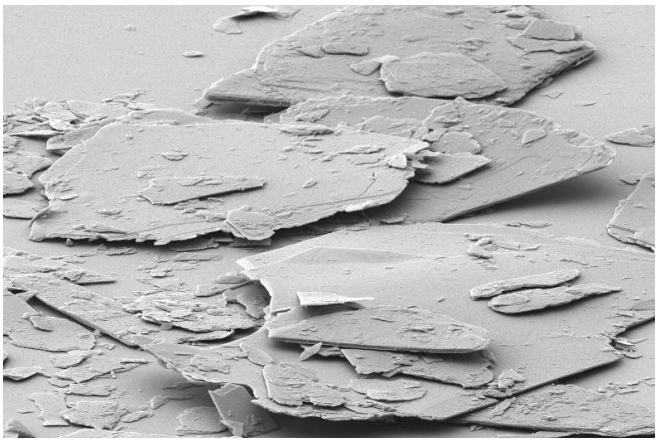
Applications/Benefits

While hydrotalcite is highly effective, reasons for seeking a replacement can include:

- Cost-Effectiveness: Alternatives are often less expensive
- Specific Processing/End-Use Requirements: The alternative may be required to meet specific regulatory approvals, thermal stability thresholds (e.g., higher heat applications), or to better suit a particular polymer matrix
- Water Carry-Over: Hydrotalcite, due to its structure, can be associated with water carry-over in some applications. Some alternatives or specific hydrotalcite grades may be preferred to minimize this

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
Elastomyn HPAC	87	0.8	High performance acid scavenger	High-performance alternative to hydrotalcite (a synthetic layered double hydroxide, often referred to as DHT) as an acid scavenger, particularly in polymer applications

Talc



About Talc

Talc is a naturally occurring clay mineral composed of hydrated magnesium silicate, with the chemical formula $Mg_3Si_4O_{10}(OH)_2$.

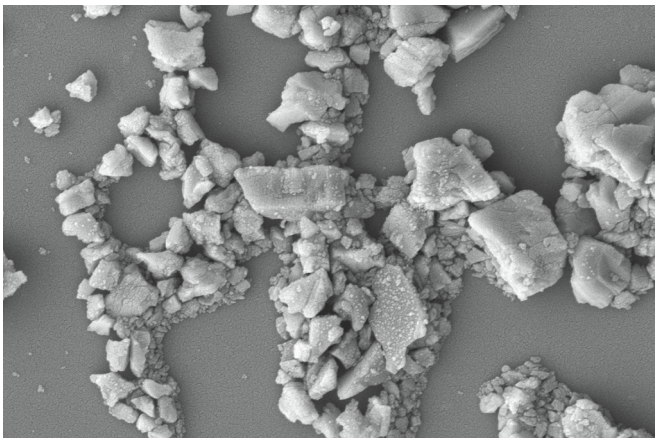
There are many types of talc and each ore body has its own features, and its own geology, but all talcs exhibit the following unique properties: softness, water repellency, chemical inertness, platyness, and an affinity for organic substances.

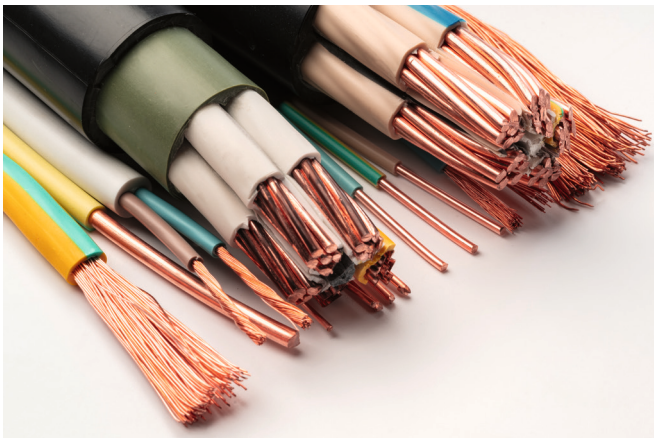
Applications/Benefits

- Anti-Sticking and Lubrication
- Mechanical Enhancement
- Thermal & Electrical Properties
- Processing Aid

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
MicroPolyFlex T20	84	5.5	Lubricant/Anti-Adhesion	Prevents core/insulation from sticking to the jacket. Eases stripping
MicroPlast 750	92	11.5		
MicroPlast 850 JS	96	5		
MicroPlast 950 JSA	96	5		

Calcium Carbonate





About Calcium Carbonate

Calcium carbonate is a very common and versatile mineral applied in multiple products and solutions. It is obtained from naturally occurring rocks like limestone, marble and chalk and it is one of the most abundant minerals on Earth and accounts for about 4% of the Earth's crust.

Applications/Benefits

- Functional filler in the wire and cable industry, particularly in PVC, Rubber, and XLPE (Cross-Linked Polyethylene) compounds
- Cost effective
- Enhanced mechanical performance
- Enhanced safety properties
- Integral to both the insulation layer and the outer sheathing (jacket)

Product Name	Brightness (ISO)	Particle Size (d50, µm)	Application	Attribute
Elastomyn 12C T	97	2.9	PVC	Cost effective Enhanced mechanical performance
Elastomyn 12C	97	2.9		

Natural Minerals Engineered for a Sustainable Future

Contact Our Sales Team

artemyn.com