



GOLDEN GATE

QUALITY. VALUE. COMMITMENT.

Natural, organic, recyclable, and sustainable farming products are within reach.



**GETHSEMANE
LTD**



GOLDEN GATE

ABOUT US

Golden Gate was born out of an entrepreneurial drive to make the best use of natural resources, promote reusability, and deliver best-in-class products through product research.



Our founding principles were designed to make a positive impact on the agriculture and horticulture industries, and we constantly strive to adapt to changing environmental and market conditions.

We invest heavily in product research, collaborate with farmers on product trials, and partner with leading tech companies to build AI models for our products.



We have a state-of-the-art process to customise our products and services to meet our customers' specific needs with high-quality standards.

We aim to provide maximum value while positively impacting the environment in our ecosystem.



ENVIRONMENTAL SUSTAINABILITY



Golden Gate's commitment to reusability makes sustainability integral to our practices. We prioritise integrity, accountability, and compliance in our ecosystem.

We are actively pursuing ways to lower our carbon emissions. Our goal is to use biodegradable materials in our packaging, grow bags, and other products.

We are investing in technologies to better understand our products, crops, nutrient usage, and resource management to increase efficiency and reduce waste.

We are collaborating with agronomists to optimise chemical use throughout the value chain, minimising impact on natural resources while maximising output and managing risk.

We are collaborating with universities to develop solutions to effectively decompose our products after use.

We are committing ourselves to leading UK and European organisations to be a forerunner in meeting the net zero targets.

SOCIAL RESPONSIBILITY

We collaborate with charitable organisations and provide pro bono support to drive community-level change.

As a growing organisation with an entrepreneurial mindset, we are constantly exploring innovative ways to make tangible changes in people's lives through hands-on involvement.



OUR PRODUCTS



MULCH BLEND



GROW BLEND



MULTI-PURPOSE BLEND



KEY FEATURES



Coco Pith Blocks, also known as Coir Blocks, stand out as a crucial growing medium for horticulture and gardening, offering unique benefits that set them apart from other options.



Coco pith offers numerous benefits for plant cultivation. It improves soil structure, retains moisture, and enhances nutrient absorption, promoting healthy root development and vigorous growth.



Versatile Sizes: Whether you're working on a small home garden or a large-scale horticultural project, Coco pith Blocks are available in 650g, 1kg, and 5kg sizes to meet your specific planting needs.



High-Quality Coir: Crafted from premium coir fibre, these blocks provide a consistent and reliable growing medium.



Excellent Water Retention: The natural properties of coco pith ensure efficient moisture retention, reducing the need for frequent watering.



Good Aeration: With exceptional airflow to plant roots, Coco pith Blocks promote healthy root development and growth.



Add water slowly to the coco pith block in a container and let it absorb fully. Within about 20 minutes, the block will expand to 12-18 liters per 1 kg, making the substrate ready for use.



The product is ideal for raised beds and indoor and outdoor pots.



Additionally, coco pith/pith is renewable, biodegradable, and environmentally friendly, making it a sustainable choice for growers worldwide.



PROPERTIES OF PITH

Physical Analysis

Physical analysis of the pith is measured in several different ways. The percentage of the organic compounds is calculated by weighing and then burning the dried coco coir. It was then considering what remains and deducting it from the weight of the dried coco coir. Bulk density is the weight of the coco coir for a specific volume. A set amount is weighed at a particular moisture and compaction level. The percentage of shrunk pores, water, and air are all measured in a press that compacts the coco coir with exact pressures. The shrinking ratio tells you how much you can compress the coco coir. The rate of pores tells you how porous the material is. Water percentage means how much water the coco coir can maximally consist of. Air percentage is how much air the coco coir consists of. The water rate of the organic matter is how much water the organic matter of the coco coir can hold.

Organic compounds (%)	>85
Bulk density (kg/m ³)	<100
Shrink (%)	14-17
Pores (%)	>90
Water (%)	>70
Air (%)	>25
Water rate of org matter (g/g)	>8.5



PROPERTIES OF PITH

1:1.5 Volume Extraction (Water)

pH, EC and chemical elements are measured from a 1:1.5 volume extraction with water. A 1:1.5 is where you extract 100 ml of saturated coco coir with 150 ml of osmosis water. These are mixed well and left to sit for 10 minutes. Afterwards, the mixture is passed through a filter. The filtered water is then measured for pH, EC and chemical elements.

	Buffered	Unbuffered		Buffered	Unbuffered
pH	6.2 -7.5	6.5-8.0	Chloride (Cl) (in mmol/l)	<0.5	<1.5
EC (mS/cm)	<0.3	<0.3	Sulphur (S) (in mmol/l)	<1.0	<1.0
Ammonia (NH ₄) (in mmol/l)	<0.3	<0.3	Phosphate (P) (in mmol/l)	<0.5	<0.5
Potassium (K) (in mmol/l)	<1.0	<1.5	Iron (Fe) (in µmol/l)	<10	<10
Sodium (Na) (in mmol/l)	<0.5	<0.7	Manganese (Mn) (in µmol/l)	<5.0	<5.0
Calcium (Ca) (in mmol/l)	<1.0	<0.1	Zinc (Zn) (in µmol/l)	<5.0	<5.0
Magnesium (Mg) (in mmol/l)	<1.0	<0.1	Boron (B) (in µmol/l)	<10	<10
Silicon (Si) (in mmol/l)	<0.2	<0.2	Copper (Cu) (in µmol/l)	<2.5	<2.5
Nitrate (NO ₃) (in mmol/l)	<0.3	<0.3	Molybdenum (Mo) (in µmol/l)	<2.5	<2.5



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