

100%  
Organic &  
Eco-Friendly



  
**SAI SUBSTRATES**

— Growing Solutions —

[www.saicopeat.com](http://www.saicopeat.com)  
[www.saisubstrates.com](http://www.saisubstrates.com)



## About Sai Group

Sai Group of Companies have more than 20 years of experience in coconut & coir products. Sai Cocopeat Export Private Limited and Sai Substrates are the two divisions in which we manufacture 100% Natural and Organic Coir Products to the horticulture, floriculture & substrates Industry. Sai Cocopeat Coir is used worldwide as a growing medium for various hydroponics crops, nurseries, plant propagation and bedding plants.

Sai group of Company makes use of the most modern technologies and machineries along with high quality materials to produce different blends of Coir-Cocopeat Substrates. In order to guarantee a premium quality product whilst ensuring delivery targets, a continuous and ample supply of Coir Pith is required. This is why we place our factory at the heart of the coconut triangle region in India.

*“Customer Satisfaction is our Motto”*

## Our Production facility is our strength

Our production facility plays a vital role in our quality and sustainability. We have three production plants at three different locations of South India – Dindigul, Pollachi & Nilakottai. The entire manufacturing process is under control of highly qualified technical team. We strictly follow the international standards to achieve high quality product.

## The facts

Sai Cocopeat have different recognitions that support our quality.

OMRI Seal ensures that our products can be used in certified organic production, according to the National Organic Program Rule of USA.

ISO 9001:2008 Certification assures our commitment to quality and environment.





### **Complete Solution for which crops?**

The hydroponic technique is suitable for wide variety of crops such as vegetables (Tomato, Peper, Cucumber, Strawberry, Melon, Watermelon, Greenbean...), Floriculture (Gerbera, rose, Carnation, orchid...) and also for propagation nurseries (Vegetables, citrus trees, olive trees, fruit trees...) as well as certain ornamental crops sensible to root asphyxia.





## Coir – Cocopeat Raw Material

Coconut husk is the raw material for coir products. It is 100% organic & natural.

This is our original substrate, made from Cocopeat raw materials directly collected from our own fiber mill. These raw materials are sieved to remove the fine particles and to improve air porosity around the roots for better growth.

## How Sai Cocopeat Coir becomes a high-quality growing media?

### 1. Washing

The natural coir's salt content often has an EC value of over 4.0 mS/cm, the material is washed with clean, fresh water in order to reduce the EC value from 0.5 - 1.0 mS/cm depends upon the customer requirement.

### 2. Buffering

In treated coir (Buffered), first we wash the coir to reduce the salt content level (EC). Strong positive elements are used to force out the Sodium (Na) and Potassium (K) elements. We use Calcium (Ca) & Magnesium (Mg) to remove the Sodium (Na) and Potassium (K). This buffering process increases the EC value to more than 3.0 mS/cm and as a third step, Coir must be washed again with clean fresh water to remove the salt content to below 0.5 - 1.0 mS/cm. For sensitive plants, for example during propagation, the salt content is reduced to an EC value of less than 0.5 mS/cm.



## Sai Coco Chips



Sai Cocopeat produces 3 different grades of coir husk chips. The various coco chips sizes provide an excellent means of balancing air to water ratio for different applications.

Coco chips are popular among anthurium and orchid growers. They are also ideal for mulching as coco chips greatly increase the air porosity in soil.

Available in 4.2kg

Breakout volume: 15 litres per kg (approx).

Size: 30x30x15cms

## Sai Cocopeat 5 kg Bales

Product Specification in different mix

### 5kg Coco Natural

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
101	Natural	100% CP	Natural	30 x 30 x 12-15	60 - 65
102	Natural +	100% CP	Washed	30 x 30 x 12-15	70 - 75
103	Natural ++	100% CP	Buffered	30 x 30 x 12-15	70 - 75

CP - Coir Pith

### 5kg Coco Mix

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
201	Mix	75% CP + 25% Chips	Natural	30 x 30 x 12-15	60
202	Mix +	75% CP + 25% Chips	Washed	30 x 30 x 12-15	70
203	Mix ++	75% CP + 25% Chips	Buffered	30 x 30 x 12-15	70

CP - Coir Pith

### 4.5 - 5kg Coco Pro

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
301	Pro	50% CP + 50% Chips	Natural	30 x 30 x 12-15	60
302	Pro +	50% CP + 50% Chips	Washed	30 x 30 x 12-15	70
303	Pro ++	50% CP + 50% Chips	Buffered	30 x 30 x 12-15	70

CP - Coir Pith

### 4.5 - 5kg Coco Premium

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
401	Premium	70% Chips + 30% CP	Natural	30 x 30 x 12-15	60 - 65
402	Premium +	70% Chips + 30% CP	Washed	30 x 30 x 12-15	70 - 75
403	Premium ++	70% Chips + 30% CP	Buffered	30 x 30 x 12-15	70 - 75

CP - Coir Pith

### 4.2 - 4.5kg Crush Supreme

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
501	Supreme	100% CC	Natural	30 x 30 x 12-15	60
502	Supreme +	100% CC	Washed	30 x 30 x 12-15	70

CC - Coco Crush

## Sai Cocopeat 5 kg Bales

Cocopeat is washed, dried & compressed into 5 kg blocks for your convenience. Cocopeat/Coco Coir/ Coco Fiber has a unique ability to withstand high compaction force without leaving its beneficial structure. Hydrate the blocks slowly by using 25 liters of water and allow the moisture to be fully absorbed. Once the block is completely reconstituted to get the yield 70 – 75 liters. Now you are ready to use it to improve your potting soils or use as a 100% soil less growing medium. A perfect growing media for flower and vegetable cultivation as well for soil conditioning.



\*Blocks are available in naked form and shrink wrapped





## Sai Copeat 650g Briquettes

650 gram briquettes are ideal for home gardening and hobby growers. Briquettes are perfect for a variety of flowering and vegetable plants.

### 650g Coco Natural

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
601	Natural	100% Coir Pith	Natural	20 x 10 x 5	8
602	Natural +	100% Coir Pith	Washed	20 x 10 x 5	9 - 10
603	Natural ++	100% Coir Pith	Buffered	20 x 10 x 5	9 - 10

### 650g Coco Mulch

Product Code	Product Name	Texture	Quality	Compressed Size (cm)	Expanded Vol. (Lts)
701	Coco Chips	100% Coco Chips	Natural	20 x 10 x 5	7
702	Coco Chips	100% Coco Chips	Washed	20 x 10 x 5	8 - 9
703	Coco Chips	100% Coco Chips	Buffered	20 x 10 x 5	8 - 9

\* Specially for Orchid flowers cultivation.

\* Sai 650 & 500 gram briquettes are available unwrapped or individually shrink wrapped with label and palletized.



## Sai Copeat Open Top Growbag

Compressed Size (cm)	Expanded Vol. (Lts)	Units Per Pallet	Pallet Per 40' HC	Units Per 40' HC	Sieving (Double Sieved)
25 x 20 x 4	25 x 20 x 16 (12)	460 Per Piece	40 Per Piece	18,400	3/4"
25 x 18 x 5	25 x 18 x 20 (15)	450 Per Piece	40 Per Piece	18,000	3/4"
30 x 20 x 5	30 x 20 x 20 (18)	400 Per Piece	40 Per Piece	16,000	3/4"
30 x 20 x 5	30 x 25 x 20 (18)	400 Per Piece	40 Per Piece	16,000	3/4" + Chips
19 x 21 x 10	21 x 23 x 20	300 Per Piece	40 Per Piece	12,000	Cocopeat





## Sai Cocopeat Disks

Sai Cocopeat Disks have been specially designed to provide the best start for your young gerbera plants.

- Rapid and more dense rooting
- No re-wetting problems
- Excellent buffering properties
- 100% organic and environmentally friendly



Disk Diameter (cm) Weight (g)	Expansion	Units per Box (Per Pallet)	Units Per 20' GP	Units Per 40'	Material Type
13.5 (350)	3.5 Lts	44 (2,816)	28,160	56,320	Husk Chips Mixed
22 (1100)	13 Lts	16 (800)	8,000	16,000	Husk Chips Mixed
4 (20-25)	250ml	250 (31,250)	312,500	625,000	Regular 3/4" Sieving
6 (40-45)	500ml	150 (15,600)	156,000	312,000	Regular 3/4" Sieving
7.5 (70-76)	1 Ltr	130 (13,520)	135,200	270,400	Regular 3/4" Sieving
10 (110)	1.5 Lts	120 (8,640)	86,400	172,800	Regular 3/4" Sieving
16 (350)	3.5 Lts	36 (2,160)	21,600	43,200	Regular 3/4" Sieving
22 (1110)	13 Lts	16 (800)	8,000	16,000	50% Crush 50% & 3/4" Sieving



\* Different sizes are available based upon quantity requested.

\* Physical and chemical structure for different kinds of disks can be specially ordered - depending upon quantity requested and stock available

### Sai Cocopeat Fiber Bale

Own Production Capacity: 9 Mt. Tones/Day  
 Bale weight: 105-110 kgs.  
 Loadability of 40' HC: 187 - 190 Bales  
 Miusture < 15%      Colour: Brown/White  
 Impurities < 5%      Coir Dust < 5%  
 Length 4-10cm - 60%; 10-15cm - 40%  
 Packing - Steel Strap



### Sai Cocopeat Curled Coir Rope

Own Production Capacity: 7.5 Tones/Day  
 Miusture < 15%      Impurities < 12%  
 No. of curles/30cm: 16-20      Diameter: 20±2mm  
**Fibre Length:** Above 150mm: 22%;  
 100 to 150mm: 36%; <100mm: 30%  
 Bundle: 25-30kg  
 Loadability of 40'HC - 18 to 19 Tones.



# SAI SUBSTRATES

— Growing Solutions —

## Sai Substrates Growbag

There are five type of textures

**Natural**  
**Mix**  
**Pro**  
**Premium**  
**Supreme**

These textures are available in washed, unwashed & buffered growbags.

Sai Substrates growbags have become a popular choice for multipurpose growing medium for vegetables, fruits & flowers. Our Sai Substrates growbags are 100% natural. Growbags are made up of a special blend of coir pith and chips, designed to provide the ideal air to water ratio for hydroponics. Our strict quality control regime ensures that only the best coir products reach our customers.

Growbags are packed in high density, co-extruded plastic bags, which are UV treated at least a minimum of 2 years. Another advantage is that they are easy to transport before re-hydration and can be stocked for months as they are compressed dry.



### Available Sizes

Compressed Size (cm) (L x W x H)	Expanded Size (cm) (L x W x H)	Volume (in Liters)	GB Per Pallet
100 x 15 x 3	100 x 15 x 10	14.36	795
100 x 18 x 4	100 x 18 x 16.5	28.30	395
100 x 20 x 4	100 x 20 x 13.5	26.06	430
100 x 22 x 3	100 x 22 x 10	21.78	530
120 x 15 x 3	120 x 15 x 10	17.40	665
90 x 15 x 4	90 x 15 x 12	15.66	735
96 x 15 x 3	96 x 15 x 9	12.53	985
72 x 20 x 4	72 x 20 x 12	16.61	710
60 x 15 x 3	60 x 15 x 10	8.70	1325
50 x 20 x 4	50 x 20 x 11	10.73	1060

Other 90 sizes can be manufactured  
as per customer's requirement





Diagram showing a rectangular shape with dimensions: 100 x 150 x 100.

Scale 1:100



### Sai Substrates – **Natural**

- 100% Cocopeat.
- Less than 1 mm fines removed.
- Fibers in the Cocopeat improve the water circulation in the substrate and give a better root colonization.
- We are using high quality Cocopeat which guarantees a maximum expansion when watering and long term stability for the substrate.
- The slab has an air holding capacity of 20 volume% at full water saturation made if fine coco material suitable for Tomato, Cucumber, Strawberry & flowers.

### Sai Substrates - **Mix**

Sai Substrates – Mix growbags is made from a blend of 75% sieved cocopeat and 25% coco chips. Double sieved less than 1mm fine particles removed. Our Mix growbags are homogeneously mixed. It improves the root development of the crop and a quick start of the culture. Mix has high air content and ensures optimum Oxygen in the roots.

It presents a higher air/water ratio. Sai Substrates Mix is the perfect substrate for modern climate. It is adaptive, offering generative or vegetative growth according to climate and for cultivation management.





We manufacture 90 different sizes (LXWXH), with and without pre-cut plant and drainage holes. Pre drilled holes for adding the drippers more easy are also optional. And we also do as per customer requirement.

We can deliver our substrates in pre-cut bags with planting holes, water drip holes & drain groves for easier preparation and labour cost cutting.

Grooves will be provided in slabs as per customer request for good drainage capacity.

### Sai Substrates - Pro

Sai Substrates – Pro growbag is a new generation Product, made from a blend of 50% sieved cocopeat and 50% coco chips/crush manufactured by slicing the entire coconut husks. Double sieved less than 1mm fine particles removed.

It presents a high air/water ratio. Both products are mixed homogeneously to achieve the best possible filling. Sai Substrates – Pro is the perfect substrate for modern climates. Therefore it suits perfectly for growing cucumbers and roses, especially in hotter climate.

### Sai Substrates - Premium

Sai Substrates – Premium growbag is made from a blend of 30% sieved cocopeat and 70% coco chips/crush manufactured by slicing the entire coconut husks. Double sieved less than 1mm fine particles removed.

It presents a high air/water ratio. Both products are mixed homogeneously to achieve the best possible filling. Sai Substrates – Premium is the perfect substrate for modern climates. Therefore it suits perfectly for growing cucumbers and roses, especially in hotter climate.

### Sai Substrates - Supreme

Sai Substrates – Supremegrow bag is a new generation Product, made from a 100% coco crush chips manufactured by slicing the entire coconut husks. Double sieved less than 1mm fine particles removed.

It presents a high air/water ratio. Both products are mixed homogeneously to achieve the best possible filling. Sai Substrates – Supreme is the perfect substrate for modern climates.



Sai Cocopeat Export Private Limited  
Sai Substrates Private Limited  
(ISO 9001-2008 Certified Company)

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