



COCO COIR BASED GROWING MEDIA & SUBSTRATES



PRODUCT OVERVIEW
COIR & SUBSTRATES

Sivanthi

Sivanthi – more than 25 years of experience

Sivanthi is the leading producer of Coco Coir base growing Media and Substrates with an annual production capacity of more than 500,000 cubic meters. With our production facility that covers 200 ha (500 acres) and over 500 employees who condition, process, produce and manage the Coir, we offer a wide range of Coir and Substrates, available as standard mixtures or according to our customers' requests.

- **First** Coir company outside of the Netherlands to receive its own RHP certification for coir products.
- **First** Coir company outside of the Europe to receive its own RHP certification on End products, RHP Growing media Substrates.
- **First** Coir company in the World to be awarded with the RAL quality mark "Substrate für Pflanzen" for coir products by GGS – Gütegemeinschaft Substrate für Pflanzen e.V. in Germany.
- **First** Coir company in India to obtain the **IMO Control** Certification of Coir Pith for using organic coir Organic Coco Peat according to
 - **NPOP** (National programme for Organic Production) (Indian Organic Standard)
 - **EU regulation (EC) No 834/2007** and **889/2008** (European Organic Standard)
 - **COR** (Canada Organic Regime) Canada Organic StandardCertified by IMO Control, India part of the renowned IMO group in Switzerland.
- **Sivanthi Organic** Coco Coir product is **OMRI Listed**. It may be used in certified organic production or food processing and handling according to the USDA National Organic Program Rule
- **First** Coir company in India to be **SA 8000** certified by the British Standards Institution (BSI).
- Sivanthi is certified with quality management system **ISO 9001-2015** standard from British Standard Institute, India



The yearly coconut harvest gives a theoretic potential of more than 60 million m³ of coir. This is more than the yearly usage of growing media of about 43 million m³ worldwide. Actually, only 10 % of the potential is used.

Coco pith makes up 2/3 of a coconut husk; 1/3 is coco fiber.



Crops grown using coco growing medium can be cultivated longer. Coir decomposes very slowly; it takes more than 10 years.



Carefully treated coir for optimal growth & healthy plants

Only carefully treated coir is a guarantee for optimal growth and healthy plants. This is the reason why we make investments every year in an all-around quality management system; our cooperation with leading international institutes for professional growers is also important to us. The chemical aspects, physical properties and phytosanitary

requirements are under continuous control and give our customers the guarantee for successful growth!

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Sivanthi Coir Pith (Coco Peat)

Art. No.	Brand Name	Quality	Structures			Packing Unit in Pallet - 40' HCC		
			0-6 mm	0-10 mm	0-12 mm	50 L	200 L	6,000 L
111	Sivanthi Premium	Buffered / Treated	X	X	X	90	25	1
112	Sivanthi Bio	Bio - Buffered	X	X	X	90	25	1
113	Sivanthi Organic	Organic / Processsed	X	X	X	90	25	1
114	Sivanthi Plus	Low pH Stabilised	X	X	X	90	25	1
115	Sivanthi Standard	Washed / Double	X	X	X	90	25	1
116	Sivanthi Natural	Natural / Unwashed	X	X	X	90	25	1



Sivanthi Crushed Coir (Coco Crushed)

Art. No.	Brand Name	Quality	Structures			Packing Unit per Pallet - 40' HCC		
			0-10 mm	0-20 mm	0-30 mm	50 L	200 L	5,000 L
121	Sivanthi Premium	Buffered / Treated	X	X	X	75	25	1
125	Sivanthi Standard	Washed / Double	X	X	X	75	25	1
126	Sivanthi Natural	Natural / Unwashed	X	X	X	75	25	1



Sivanthi Coir Chips (Coco Chips)

Art. No.	Brand Name	Quality	Structures		Packing Unit per Pallet - 40' HCC		
			0-12 mm	0-25 mm	50 L	200 L	5,000 L
131	Sivanthi Premium	Buffered / Treated	X	X	75	25	1
135	Sivanthi Standard	Washed / Double	X	X	75	25	1
136	Sivanthi Natural	Natural / Unwashed	X	X	75	25	1



Sivanthi Coir Fibre (Coco Fibre)

Art. No.	Brand Name	Quality	Structures			Packing Unit per Pallet - 40' HCC			
			0-10 mm	0-20 mm	0-30 mm	5 kg	50 L	43 kg	5,000 L
141	Sivanthi Premium	Buffered / Treated	X	X	X	148	75	13	1
145	Sivanthi Standard	Washed / Double	X	X	X	148	75	13	1
146	Sivanthi Natural	Natural / Unwashed	X	X	X	148	75	13	1



200 ha of production area with 500,000 m³ Production Capacity



Milling systems separate coir pith and fibre.



The coir pith storage and aging process



Coir processing and treating



Highly compressed planks grow bag machines

Sivanthi Coir – Chemical Properties

Chemical Parameters	Coco Peat / Coco Crushed Coco Chips			Coco Fibre		
	Dutch 1: 1, 5 vol.*	German VD Lufa**	European 1:5 vol***	Dutch 1:1, 5 vol.*	German VD Lufa**	European 1:5 vol***
pH value	5.5-6.8	4.5-6.0	5.5-6.9	5.5-6.8	4.5-6.0	5.5-6.9
EC / salt	<1.0 mS/cm	<0.5 g/l	<23 mS/m	<1.0 mS/cm	<0.3 g/l	<12 mS/m
Sodium (Na)	<1.5	<75	<70	<1.5	<25	<70
Chloride (Cl)	<2.5	<150	<150	<1.5	<75	<100
Nitrogen (N)	<2.0	<50	<50	<1.0	<35	<25
Phosphorus (P)	<0.10	<20	<5	<0.10	<15	<5
Potassium (K)	<0.5	<200	<40	<0.5	<75	<40

*the elements are expressed in mmol per litre extract. pH in H₂O - **Sivanthi method**

**the elements are expressed in mg per litre material; phosphorus in P₂O₅, potassium in K₂O. pH in CaCl₂

***the elements are expressed in mg per litre material. pH in H₂O

Sivanthi Coir – Physical Properties

	Coco Peat	Coco Crushed	Coco Chips	Coco Fibre
Dry bulk density g/l	80 - 90	70 - 80	80 - 90	60 - 70
Buffer capacity	+++	++	+++	+
Water capacity	+++	++	++	+
Capillarity	+++	++	+++	+
Water retention	+++	++	+++	+
Water uptake	+++	++	++	+
Air capacity	++	++	+++	+++
Biological stability	+++	+++	+++	+++
Bio degradable	+++	+++	+++	+++
Available resources	+++	+++	+++	+++
Sustainability	+++	+++	+++	+++

Guarantees customers for continuous delivery of consistent high quality coir products.



Sivanthi Growing Media Products with Fertiliser

Art. No.	Brand Name	Substrate Products	Quality	Structures			Packing Unit per Pallet - 40' HCC		
				0-6 mm	0-20 mm	0-30 mm	50 L	200 L	6000 L
211	Sivanthi Propagation	Propagation / Germination / Tray mix	Buffered-Max	X			90	25	1
212	Sivanthi Vegetables	Vegetable and Fruit Mix	Buffered-Max			X	90	25	1
213	Sivanthi Flowers	Ornamentals & Flower Mix	Buffered-Max		X	X	75	25	1
214	Sivanthi Orchid	Special Orchid Mix	Buffered-Max			X	75	25	1
215	Sivanthi Potting Soil	Potting Soil Mix - Pot plants	Buffered-Max		X		90	25	1
216	Sivanthi Paddy	Paddy (Rice) Mix	Buffered-Max	X			90	25	1
217	Sivanthi Special	Sphagnum Peat - Coco mix	Buffered-Max	X	X	X	90	25	1
218	Sivanthi Air	Coco - Perlite Mix	Buffered-Max	X	X	X	90	25	1

Sivanthi Hydroponic Products

Art. No.	Brand Name	Hydroponic Culture	Quality	Sizes	Structures		Packing Unit per Pallet - 40' HCC
					0-6 mm	0-25 mm	
311	Sivanthi Planks	Naked Planks for Troughs / Hanging Gutters	Buffered	Various	X	X	Various
312	Sivanthi Growbags	Grow Bags in LDPE UV Film	Buffered	Various	X	X	Various
313	Sivanthi Quickfill	Open top Bags for one or two plants	Buffered	240 x 200 x 160 mm	X	X	1014
314	Sivanthi Cube	Coco Cube for young Plants	Buffered	Various	X	X	Various
411	Sivanthi Pot	Coco Paper Plugs with fertilised	Buffered- Max	15 mm x 40 mm	X	NA	62208
412	Sivanthi Pot	Coco Paper Plugs with fertilised	Buffered- Max	25 mm x 40 mm	X	NA	21168
413	Sivanthi Pot	Coco Paper Plugs with fertilised	Buffered- Max	40 mm x 60 mm	X	NA	8400
414	Sivanthi Pot	Coco Paper Plugs with fertilised	Buffered- Max	50 mmx 70 mm	X	NA	4608

Sivanthi Consumer Products

Art.No.	Brand Name	Hobby Products	Quality	Size	Structures		Packing Unit per Pallet - 40' HCC		
					mm	0-6 mm	0-12 mm	10 L	30 L
511	Sivanthi Nursery	Coir Special Nursery Mix	Buffered-Max	NA	X		360	150	90
512	Sivanthi Gro	Coir Premium Growing media	Buffered	NA		X	360	150	90



SIVANTHI SPECIAL PRODUCTS

- COIR ABSORBENTS FOR ANIMALS
- COIR FILTERS FOR WASTE WATER

Sivanthi offers a wide range of mixtures with spagnum peat, perlite or other materials with fertiliser, available as standard substrates or as special mixes according to customer's requests.



Modern mixing line machine



50 L, 70 L loose bagging machine



6 m³ (6000 L) - Big Bale machine



200 L Small Bale machine

Modern mixing & packing lines for loose fill bags 50 L, 70 L, 200 L bales and 6,000 L big bales guarantee optimal transport and handling.

Sivanthi

COCO COIR BASED GROWING MEDIA & SUBSTRATES



The future of Growing Media is COIR

Coir as a growing media is increasingly becoming one of the most important resources for the future. Some areas of modern horticulture, such as vegetables, cut flowers, orchids and others, are dominated by coco growing media.

Logistic advantages

Sivanthi is strategically located in the middle of Asian countries; countries such as Japan, Korea, China, Malaysia, Australia and New Zealand can be reached from the East; the Gulf and African countries can be reached from the West.

Having good mixing equipment as well as efficient bagging/baling machines enable us to produce high-quality substrates and growing media.

Using coir as a main product and having special permission to import peat from Europe in order to perfectly mix substrates upon customers' requests, allowing interested customers to place their own brands on **OEM** (Original Equipment Manufacturer) model packaging and delivering the goods directly to their customers in the respective countries all enable a more economical way of production,

which thus saves on logistic costs. With this there is also less transporting, which means less expenses for deliveries and considerable savings regarding the carbon footprint.

Ready to use

It is easy to handle 6,000 L big bales or 200 L bales on pallets. The 1:2 compression ratio and the 50 % moisture level make it easy to use directly without having handling costs for rehydration.

Satisfied customers in over six continents

Coir products from Sivanthi – always a consistent, good quality without cultivation risks.



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