Jiffy

GROWING SOLUTIONS

PRODUCT CATALOG

Developing sustainable plant growing solutions together

Jiffy
GROWING SOLUTIONS

More yield, less waste

As a professional grower in horticulture and forestry, you seek the most innovative plant growing solutions to improve your efficiency and product quality. We at Jiffy have the best solutions to help you create more yield with less waste.

Jiffy is the leading global supplier of propagation systems, hydroponic systems, natural growing containers and substrates for any type of plant propagation and cultivation enterprises big or small. Our solutions have no limits based on plant type. We use renewable resources and bio-based materials such as peat, coconut coir, pulp and other bio-mass. We abide by the highest industry standards in order to both safeguard the environment and supply the highest-quality, in many cases certified, products to our customers.

Tailor-made solutions

Our broad Jiffy portfolio offers you an incredible variety of options to create tailor-made solutions for your business. And we are always willing to listen to you, our clients, to help us all technically improve in order to feed and beautify the world while caring for the environment. With our portfolio of pots, pellets, coir products, substrates and plugs we aim to help your company find the best solution for your growing needs.

Global company, rich history

Jiffy is a truly global company. Our headquarters are in Zwijndrecht, the Netherlands. We also have locations in the US, Canada, Sri Lanka, Japan, Norway, Denmark, Sweden, France, Spain, and Estonia.
Jiffy is perhaps best-known for the “Jiffy Pot”. This root protection and propagation product was launched in the early 1950s and gained huge success in the US & European markets. By 1963, the Jiffy Pot company was making 640 million pots annually. The Jiffy Pot was originally developed in Norway and revolutionized the global retail floral industry.

Innovation is in our roots

Another innovative Jiffy product which is equally well-known in the growing industry today, is the Jiffy-7 pellet. This product was launched in the late 1960s and began production in North America in 1982. This pellet is known all over North America as the “703”. Today, billions of plants all over the world are started in a Jiffy in many various types of plant propagation industries.

Jiffy also become a world leader in state-of-the-art propagation systems thanks to the 2002 acquisition of the Preforma Plant Plug. Most recently, we also become leaders in the coir (coconut fibre) market, with our own pellet factory based in Mirigama, Sri Lanka. This facility produces not only the new Jiffy-7C pellet, but also top-quality hydroponic media such as Jiffy Growbags and Jiffy Growblocks made from RHP certified coir – as well as ingredients for Jiffy’s wide range of peat-reduced and peat-free substrate mixes. These substrates are produced in our production locations in Estonia, The Netherlands and Canada.

We control the entire production process which always guarantees top quality uniform substrates.

Let’s work together

We at Jiffy aim to serve you, our customers in plant propagation and cultivation to achieve better results. We can do this together by continually improving, innovating and working towards our common goals based on facts, teamwork and involvement. Let’s develop sustainable plant growing solutions together: starting today!

Certificates

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015
ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001:2015
SAFETY SYSTEM CERTIFICATION DNV·GL OHSAS 18001
FOOD SAFETY SYSTEM DNV·GL ISO 22000:2005

JIFFY GROWBAGS

JIFFY GROWBLOCKS

JIFFY POTS

JIFFY PELLETS

JIFFY PREFORMA

JIFFY SUBSTRATES

JIFFY GROWBAGS
A peat-free powerhouse

As a professional grower, you seek cultivation systems which are consistent and result in reliable growth. Better still: you want a system which will spark extra-strong growth and higher yields, yet which is extremely efficient to transport, store and use. The Jiffy Growbag is the most powerful multipurpose growing medium available on the market today. Jiffy Growbags contain 100% coco substrate, made from the pithy tissues of the coconut husk. This is a renewable, environmentally-friendly substrate with no disposability issues.

- Ready-to-use
- Faster growth, higher yield
- Multiple cultivation cycles
- Environmentally-friendly substrate

The Jiffy Growbag has unbeatable rooting characteristics. It can be used with a very broad range of crops. The Jiffy Growbag can be delivered with or without pre-cut planting and drainage holes. Jiffy Growbags are made of 100% RHP Foundation Certified coco substrate and in three different types: High Yield, Husk Chips (HC) and 50-50 mixes. These bags can be used for multiple cultivation cycles.

The bags are supplied dry from our factories in Sri Lanka. This means they are compressed and light, making them easy and efficient to transport and store. They are also ready-to-use: no washing, buffering, mixing, or additives required: just add water and fertilizer solution and the Jiffy Growbag is ready to be planted.

Growbag


Growbag

Jiffy High Yield Growbag is double-layered: the top layer is coco pith, which improves root development and therefore ensures the quick-start of growth. The bottom layer an airy substrate made of husk chips which has a high air content and ensures optimal oxygen diffusion rates in the root zone.

Jiffy 5050 Growbags are often used for specific crops such as roses and strawberry. They contain a special combination of 50% coco pith and 50% husk chips, mixed for the best possible filling. The Jiffy 5050 has higher water-holding capacity, which makes it perfect for growing in hotter climates.

The **Jiffy Husk Chips (HC) Growbag** contains 100% husk chips and is perfect for growing crops which prefer airy substrates. These bags are used most in moderate climate zones for plants which like to be watered intensively, without drowning the root zone. The HC Growbag has a very high air content (44%) when saturated with water. The HC Growbag therefore ensures the correct oxygen level in the root zone to ensure successful growing right up to the end of the season.

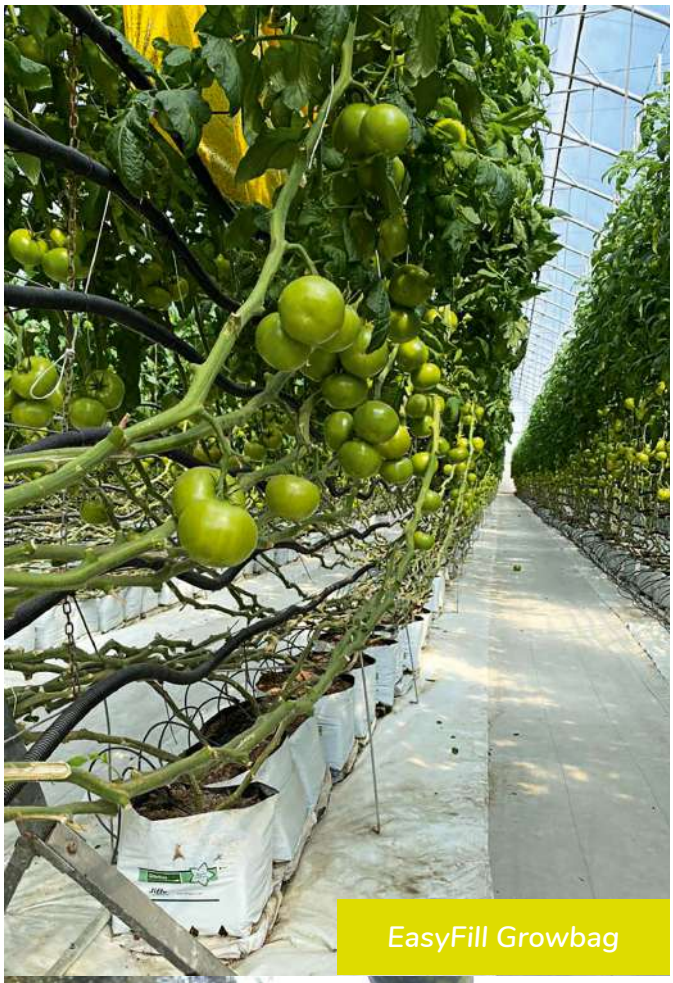
EasyFill Growbag

Some professional growers prefer a container system with increased height to encourage root development. Jiffy EasyFill is all about the height. The EasyFill has a foldable open top, which once unfolded, creates a deep, open container. There are six different sizes of Jiffy EasyFill Growbags, from 16 x 18.5 x 16 centimetres up to 32 x 32 x 20 centimetres.

The fillings for the EasyFill Growbags are available in the same three varieties shown above: High Yield, 5050 and HC, all of which have a pH value of between 5.5 and 6.5.

RHP Certified for Horticulture

OMRI LISTED For Organic Use



EasyFill Growbag

EasyFill Growbag

JIFFY GROWBLOCKS
All-in-one high yield solution

Plastic pots are not efficient containers for professional nursery propagators and bedding plant growers. Roots keep growing when they reach the edge of a plastic pot which can structurally damage plants. Pots increase the risk of oxygenation or drainage issues. Pots are also labour-intensive: another disadvantage: professionals need a high-yield solution.

The answer?

An all-in-one medium and container: the Jiffy Growblock – the number one choice for all cut-flower and vegetable growers using hydroponic systems, greenhouses or other nursery applications. And thanks to air-pruning, better temperature control, and versatility, Jiffy Growblocks create healthier, stronger plants.

- Higher-yield
- Stronger plants
- Time-saving
- Labor-saving

The Jiffy Growblock contains 100% RHP Certified coco substrate and is delivered as a dry plate enclosed in netting. This is highly efficient for both transportation and storage. When water is added, the plate swells into a block or slab, ready to propagate or cultivate your plants and contained by the netting to keep the medium contained and the greenhouse clean. Growblocks can be ordered in a wide range of sizes, with or without seedling holes depending on your specific needs.

The purified, stabilized coco substrate is carefully selected at our own Jiffy production site to give a maximum WHC of 60-75%. Air-filled porosity of 20-35% ensures optimum oxygen diffusion rates in the root zone. The production process of the Jiffy Growblock allows growers to adapt any fertilizer application with a range of EC and pH levels. Coco substrate is a renewable, environmentally-friendly substrate with zero disposal issues and the netting is made of PLA. Jiffy Growblocks work perfectly in combination with Jiffy Growbags.

RHP Certified for Horticulture

OMRI LISTED For Organic Use

Bump Up

Professional nursery propagators and bedding plant growers can all save time and money with Jiffy Bump-Up plugs. The plugs contain Jiffy's own-manufactured 100% RHP certified coco substrate and are delivered dry and compressed to save on transport and storage logistics. Specifically designed to bump-up three or more cuttings in one single step, Jiffy Bump-Up can directly result in a possible labor saving of up to 27%.

The Bump-Up plug itself consists of a medium-and-container block, ideal for nursery propagators to transplant softwood cuttings which can later be bumped up to a larger container. Bedding plant growers can plant three or more cuttings in a Bump-Up and later transplant multiple plants to a final location such as flowerbed, patio container or hanging baskets in one single move.

Compostable PLA Netting

Reducing the use of plastic in packaging and production is a global issue, and at Jiffy we aim to lower the use of plastics for our growing media. Since 2019, Jiffy has switched from PE and PP plastics to PLA netting for the manufacture of all Jiffy Growblocks and Jiffy Pellets. All Jiffy Growblocks now use PLA netting. This is made from polylactic acid (PLA) an alternative to plastic, based on corn starch and sugarcane. PLA netting is a lightweight, fine-fibre web which is biodegradable and compostable under controlled industrial conditions.
It is certified under EU norm EN13432. Jiffy cares for the environment and we are striving to help our customers grow their products in a sustainable or renewable way.

Our Organic Growblock is certified to be used for organic growing: www.intrants.bio and is suitable to be used for growing SKAL certified crops.

Growblock

Bump Up

Growblocks

Growblock

JIFFY POTS
The compostable classic

Professional nurseries, landscapers, greenhouse growers and hydroponic farmers all over the world can benefit from the range of advantages which the Jiffy Pot provides. You can save on labor with Jiffy Pots because you don't need to de-pot: simply pot on or plant out – Jiffy Pot and all. You get faster rooting with a Jiffy Pot than with a plastic pot, thanks to no root disturbance and less root-zone temperature fluctuations.
You can also reduce water consumption by 20% when Jiffy Pots are combined with the Jiffy Pot Tray, as this allows shorter, or less frequent, watering cycles.

- Versatile
- Labor-saving, no need to de-pot
- Fast-rooting
- Environmentally friendly alternative

You can use Jiffy Pot anywhere: from very traditional greenhouses, to the most advanced high-tech vertical hydroponic farms. Jiffy Pots Original are also 100% "home-compostable" and approved for organic production. They are also well-suited to mechanical handling thanks to newly-added de-stacking features. No chemicals are used during the manufacture of Jiffy Pots, which makes them the number-one choice for food crops.
Jiffy Pot sizes range from 5.5 to 15 centimetres (round) and 4 to 9 centimetres (square), with most sizes available in pre-loaded growing trays.

Jiffy Pot, The original

The Jiffy Pot first came onto the market in the 1950s and since then it is not an exaggeration to say it has revolutionised global retail growing. The Jiffy Pot Original is the "classic" version of the Jiffy Pot. Fast, easy, money-saving, compostable and organic-approved.

Jiffy Pot Original is the go-to solution for all professional growers seeking pots, strips (pots joined together in strips) and poly-packs for an extremely wide range of growing applications.

Jiffy Pot, R2

If you are a professional grower seeking a bio-degradable pot which needs to stand up for extended periods of time, you need the Jiffy Pot R2. For example, if you grow aggressive rooting nursery plants which are overwintered in a cold frame, these are for you. Also, if you are a hydroponic farmer growing crops such as herbs and lettuce which are then sold on the retail market as a living plant with a 100% biodegradable and non-toxic container – the Jiffy Pot R2 is the perfect solution.
If you need a pot which is well-suited to automatic dispensing equipment, and which is an economical and environmentally-friendly alternative to the plastic pot – look no further than the R2. The total period which the Jiffy Pot R2 keeps its rigidity and shape depends on the ambient humidity, irrigation, substrate, fertilizer type and temperature in which the crops are grown.

Crade-to-Cradle Denmark

Jiffy is proud that the Jiffy Pot DK2C was recently awarded a Gold Cradle-to-Cradle certificate by the Products Innovation Institute. This globally-recognized institute works closely with product manufacturers, suppliers, accredited assessors and other industry influencers and stakeholders to maximize the positive impacts of products and materials. Jiffy International sees C2C certification as the way forward for improving defined sustainability of our products, a stimulus for innovation and encouraging a holistic approach to product life cycles.

Jiffy Pot, R2

Jiffy Pot, R2

Jiffy Pot, The original

Jiffy Pot, The original

JIFFY PELLETS
Great germination, higher profits

Propagating seeds and cuttings or tissue culture with Jiffy Pellets has a number of clear advantages for professional horticultural, hydroponic and forestry growers alike. You can consistently record higher and faster levels of in-pot germination thanks to the uniform growing in Jiffy Pellets, consistent quality, means consistent results. Your plant yields will be higher as seedlings do not have to be removed from the container, the pellet eliminates root disturbance, and simply planted into the nest growing stage without transplant shock. These shorter growing process cycles also mean considerable labor-savings and water-use reduction. Jiffy Pellets are a logical choice for professional propagators who want to be more profitable.

- Better, faster germination
- Labor-saving
- Lower water use
- Higher yields, better quality media

Jiffy Pellets are an open-wall, net container and medium all in one. They are easy to work with, economical to ship (being supplied as light-weight, highly compressed, dry discs) and they transplant well, either into larger containers, or into directly into the ground.

The pellets are made from either 100% peat or a mixture of peat and Jiffy's own-manufactured RHP-certified coco substrate, or 100% coco substrate. Most Jiffy pellets are available pre-loaded in many European and North American tray standards, as well as on poly-roll (pre-spaced pellets on a roll) or as bulk pellets for loading into standard industry trays. The 100% peat and the coir/peat mix pellets have the medium exposed to high temperature flash drying to create a sterile substrate.

Jiffy-7 – The original

Many professional propagators may be familiar with the Jiffy-7 pellet. The Jiffy-7 has a long track-record and is currently available in a wide variety of sizes, tray configurations and media choices to fit all growers' needs.

If you are looking for a clean and cost-effective propagation solution which is well-suited to almost any crop, and is configured with most existing automation systems, then the Jiffy-7 is the best solution.

Jiffy-7C – 100% Peat Free

Many modern professional plant propagators in greenhouses and nurseries are today choosing the Jiffy-7C pellet as their preferred option. If you are looking for a rooting medium which can be applied in a wide range of highly stressing conditions, the Jiffy-7C pellet fits the bill. The 7C contains 100% RHP-certified coco-substrate enclosed in netting. This coco-substrate is manufactured at Jiffy's own plant in Sri Lanka and is made using a by-product of the coconut industry. Rooting plants which prefer well-aerated, fast draining plugs benefit particularly well from the Jiffy-7C. Growers seeking a peat-free propagation system choose the Jiffy-7C.

Jiffy-7C pellet

Our Organic Jiffy-7C pellets are certified to be used for organic growing: www.intrants.bio and are suitable to be used for growing SKAL certified crops.

PLA Netting

Reducing the use of plastic in packaging and production purposes is an important global issue. Jiffy is now in the process of switching from PE and PP plastics to PLA netting for all Jiffy Pellets. PLA net is a lightweight (12-gram weight), fine-fibre bio-web made of polylactic acid. This material is designed for any growing applications and is made from material based on corn starch. The PLA net is biodegradable and compostable under controlled, industrial conditions. It is certified according to the harmonized European standard EN13432.

Coco Disk

Gerbera and orchid growers who want maximum structural stability and an optimal water/air ratio for their cultivation need to look no further: the Jiffy CD, or Coco Disk, has been specially designed for Gerbera cultivation. The Jiffy CD contain 100% RHP-certified coconut husk chips, an environmentally-friendly and sustainable medium. The husk chips are washed and buffered to guarantee against high Na and K values and avoiding excessive conductivity. Orchid-growers can also use customized sizes of Jiffy CDs for their production.

Quick Soil Mix (QSM) Pellets

Growers looking for the most efficient solution to fill pots with soil-less substrate turn to Jiffy QSM pellets. These pellets are manufactured without netting. For growers and retail suppliers, they have all the benefits of lower logistics and storage costs due to the pellets being supplied as highly-compressed, dry discs instead of bags of loose substrate. QSM pellets come in two mix varieties: compressed 100% peat substrate or compressed 100% RHP-certified coco-substrate. QSM pellets are available in a wide range of sizes to suit many containers.

Coco Disk

Jiffy-7 pellet in 3 steps

Jiffy-7 pellet

JIFFY PREFORMA
Propagation plug solution for every grower

If you are looking for a tailor-made solution of highest-quality substrates, bound together and well-suited to both hard-to-root cutting material and the easy propagating crops or demanding mechanized handling: then the Jiffy Preforma plant plug system is the answer. Professional growers worldwide benefit from the flexibility of the Preforma system. You control which trays are supplied, choose from a selection of substrates, and Preforma is ready to go, right off the delivery pallet. Preforma has a proven track record for a wide variety of seeds, cuttings and tissue culture in the propagation of ornamental, vegetable, perennial and bedding plant crops.

- Ready-to-go
- Fast rooting
- No transplant shock
- Automation

Preforma plugs consistently retain an air content of 30% or more, which means no compaction, even under heavy misting conditions. This makes it an ideal propagation medium, providing an optimal environment for uniform and fast rooting.

The binder's structure ensures no transplant shock. This means you can ship or transplant the plugs earlier, freeing up valuable bench space in order to rotate the crops faster.
Jiffy Preforma plugs are available for many different crops. But over the years we developed some crop specialties such as: orchids, soft fruits, perennial from cuttings or TC, pot plants.

Orchid Plugs
Orchid growers dealing with sensitive Phalaenopsis plants know that this genus requires very special treatment. Jiffy Orchid Plugs are specifically designed for growing orchids and can be perfectly combined with the Orchid Plug tray. The Orchid Plug is well-aired, even right after irrigation, to avoid excess moisture. Not too wet, and not too dry is the secret to consistent orchid production. The top of the plug will remain dry, thanks to its open structure, in order to prevent liverwort or other stifling algae. This high-quality substrate system developed over years of experience, is ideal for growers seeking reliable, consistent, quality plants with superior rooting. The plugs are easy to open, making inserting young plants easy. The substrate itself is specifically developed to have the correct pH and EC for orchids.

Box Plugs
Professional growers who need a superior substrate plug which can be put straight into trays on location, choose the Preforma Box Plug. This is the best high-quality plug for those looking for a smart economical solution. The Jiffy Box Plug was developed specially for export and can be delivered anywhere in the world. Jiffy Box Plugs are available in different sizes: 20/40 with a sticking hole; 30/50 with a slit and 30/50 with a sticking hole.

Preforma

Orchid Plugs

Preforma

Orchid Plugs

JIFFY SUBSTRATES
Superior mixes for all of today's demands

All professional growers want the optimal growing media mixes best suited to their crops. That sounds simple, but we all know this involves a huge range of variables. Every crop demands a reliable and consistent substrate composition to ensure optimal yield, plant stability, nutrient supply, water retention and ultimately, plant quality. Growers today also see more demand for organic crops and environmentally-friendly cultivation methods. The reusability and safe disposal properties of substrates are also a factor for our industry. We at Jiffy are moving with today's market. We care about our environment. Our substrate solutions answer today's demands.

- Very reliable
- Environmentally friendly
- Highest quality
- 30-different mixes

Jiffy's range of substrates include peat-reduced, peat-free and organic certified solutions. We also have a long history of knowledge and experience in delivering the highest-quality substrate mixes with the most uniform characteristics, tailored and tested to meet each crop's specifications, every time. Jiffy also has modern production facilities in a number of locations across the world, in order to guarantee the best physical characteristics of its substrate mixes.

RHP
Certified for
Horticulture

GO Range

The Jiffy GO substrate mix range caters for a very wide range of crop applications. There is a Jiffy GO solution for bedding, propagation, vegetable, nursery stock and perennial or other greenhouse crops. The GO brand range has over 30 different standard substrate mixes to meet your specific needs. While normally delivered in 70-litre bags, Jiffy GO can also be delivered to you in 50 Liter bags, big bales and big bags, or loose. There are six categories of Jiffy GO Mixes: seeds and cuttings; bedding plant production; pot plant production; nursery stock and perennials; mixes for organic production; and mixes for vegetable plant propagation.

Jiffy-Mix

North America's professional growers know Jiffy-Mix and Jiffy-Mix Plus as substrate mixes which are among the most trusted brands on the market. While Jiffy-Mix is the ideal solution for seed germination and unrooted cuttings, Jiffy-Mix Plus is ideal for transplanting rooted cuttings or vegetables. Jiffy-Mix incorporates the world's highest-quality substrate ingredients such as RHP-certified coir coconut pith, blends of block-cut European peat as well as longer-fibred grades of Canadian peat.

Jiffy Substrates

TPS

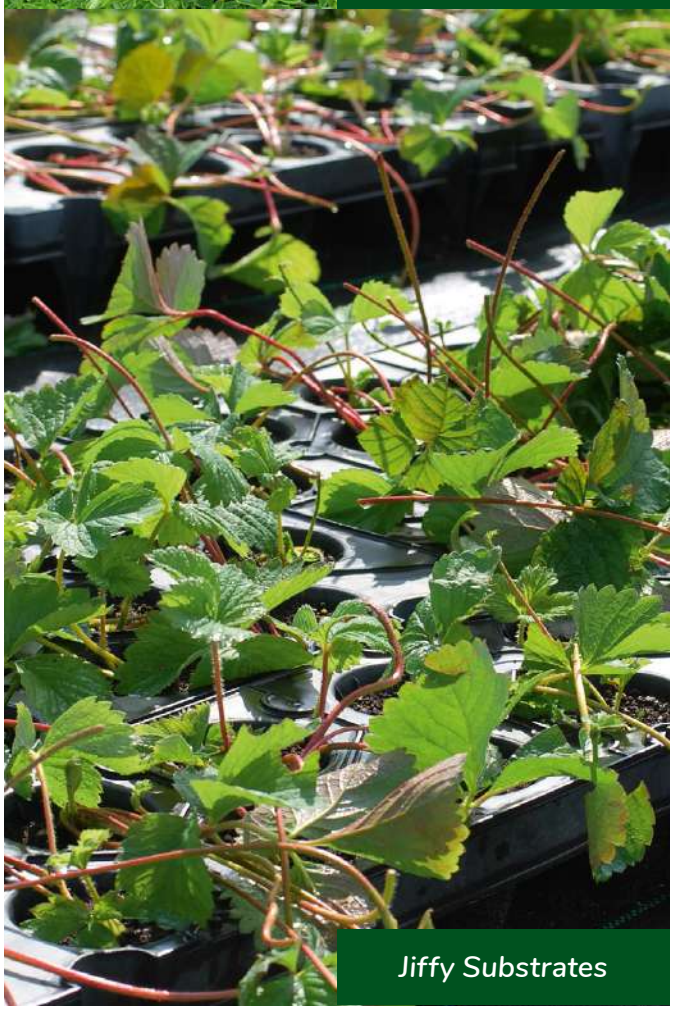
Jiffy's TPS peat substrate mixes are delivered directly from our modern mixing facility in Estonia and are used for many crop applications. TPS substrates are fine-to-coarse structured mixes which contain specific blends of white and black peat, block peat and coir coconut pith. The mixes also include Tref Base Fertilizer TBF which provide the nutrients nitrogen, phosphorus and potassium (NPK) in the required balance, as well as trace elements, to ensure healthy plant growth.

FORMiT

Today's ultramodern high-tech growers need special substrates which can meet their specific demands. For example, vegetable growers who produce young plants in small plugs using automated planting equipment need substrate which holds together during the rigors of automated handling and transplanting. Jiffy FORMiT substrate blend is designed specifically for today's highly automated growing facilities. The FORMiT product line contains a special mineral binder which keeps the plug together when run through automated transplanters or field planting equipment. The stable FORMiT plug, a lack of transplant shock and a more efficient use of planting equipment, thanks to fewer misses in the field, saves labor on re-planting missed spots, and results ultimately in higher yields.

FORMiT Substrates

Jiffy Substrates



Jiffy Substrates

Developing sustainable plant growing solutions together

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SICOMIX

SLOW RELEASE TABLETS

for universal use

Sico FERTILISERS
EVERY TIME THE right SOLUTION !

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Information

SICOMIX® - OUR LINE OF SLOW-RELEASE FERTILISERS IN TABLETS AND POWDER

SICOMIX® is a line of special complete high-nutrient chloride-free slow release fertilisers. Depending on the climate and the soil condition both manufactured forms - tablets and powder - are marked by a slow and pro-longed release of nutrients lasting for up to 18 months. The line of slow release fertilisers SICOMIX® is thus designated for fertilisation and supplemental fertilisation of a wide range of perennial and long-living cultures. In modern horticulture and forestry, slow-release fertilisers (SRFs) in tablets have proven **superior to conventional fast release fertilizers (FRFs).**

The slow and gradual action of the SICOMIX® fertilisers is due to the decomposition of Ureaform (urea-formaldehyde, Methyleneurea) polycondensates in the soil as the principal source of nitrogen. Ureaform chains of different lengths exhibit various water solubilities; at least 50 to 70 percent of total nitrogen is available in water-insoluble form, depending on the fertiliser composition. Unlike with the conventional FRFs, the use of slow release fertilisers SICOMIX® **prevents undesirably high concentrations of nitrogen** in the soil at the beginning of fertilisation. Consequently, the nitrogen leaching from the soil does not increase.

An important feature of slow release fertilisers SICOMIX® is the content of sparingly soluble alkaline potassium-magnesium phosphate that guarantees a slow action of the other essential nutrients - phosphorus, potassium and magnesium - while having a positive effect on the pH of acidic soils.

The high nutrient content, the limited solubility and the absence of undesirable additives (e.g., chlorides) increase the number of possible applications of the slow release fertilisers SICOMIX®. Through all their qualities, they are **environmentally friendly.**

The slow release fertiliser tablets SICOMIX® bring about a number of advantages. Most importantly, the tablets are particularly well suited for fertilisation of plants with longer period of growth (perennial plants), especially at poorly accessible sites or where conventional methods of fertilisation cannot be used. The fertiliser tablets are ideal for separate fertilisation of each individual plant; they create a sufficient supply of nutrients in the soil or substrate without the risk of undesired increase in the soil concentration and losses due to leaching of the nutrients. The application is simple and targeted; it allows an accurate dosage of the nutrients, and reduces the unproductive fertilisation beyond the reach of the root systems.

The slow release fertiliser tablets SICOMIX ® are applied into vessels or on loose soil. Standard fertilising tablets are available in the weights of 5, 10 and 15 grams, respectively. Fertiliser tablets of non-standard weights can be produced on request.

The slow release fertiliser tablets SICOMIX® are particularly suited for the planting of forest seedlings (especially on the areas affected by emissions or soil erosion), ornamental and fruit-bearing trees, bushes and flowers, vineyards, hopgardens, strawberry plants, raspberry, gooseberry and currant bushes, trees and bushes alongside roads, plants on recultivated areas, etc.

Start-fertilising efficiency is beneficial for the planting of tropical and subtropical species, e.g., coconut and oil palms, olivetrees, coffee, cocoa, tea, citruses, oranges, bananas, avocados, mangos, papayas, dates, eucalyptus, rubber, tung, shorea, tectona, pistachio, macadamia and cashew nuts, etc.

The use of slow release fertiliser tablets SICOMIX® leads to **considerable savings in time and labor**, and decreased need for supplemental fertilisations. The tedious and questionable blending of a substrate with conventional fertilisers is rendered unnecessary. Also important is the economic effect brought about by improved growth of seedlings, by shortening the flowering cycles and by wood increments.

The release of nutrients from slow release fertilisers SICOMIX® depends on the chemistry, biological activity and water regime of the soil, but also on the chemotropism of plants. The nutrients can be utilized during the course of multiple vegetation periods. Limited solubility of the nutrients and the high degree of their uptake by plants prevent their excessive dissolution into the soil and surface waters. The powdered form of SICOMIX® slow release fertilisers is especially well suited for the powdering applications to young seedlings in nurseries. Special forest and garden substrates can be made by blending the powdered SICOMIX® slow release fertilisers with peat.

The SICOMIX® slow release fertilisers have been thoroughly evaluated by chemical analysis and plant nutrition studies. Lab tests have shown a markedly lower solubility of all nutrients compared to standard FRF fertilisers. All tests conducted under different experimental conditions have clearly documented that the nutrients are released slowly from the slow release fertiliser tablets and powders, and confirmed that the application of SICOMIX® tablets secures a higher degree of nutrient utilisation and reduces losses due to retrogradation and washing out into ground waters. The full advantage of the environmental friendliness of the SICOMIX® tablets can be taken in regions affected by emissions or in regions serving as water supply sources.

Long-term examination of mechanical properties of the SICOMIX® slow release fertiliser tablets and powder has proved their dependable strength and minimum abrasive wear on storage under outdoor conditions. Growth tests, established by several prestigious institutions authorized to carry out testing of new types of fertilisers, showed that the SICOMIX® slow release fertilisers fully satisfy the requirements for stock and environmentally friendly fertilisers.

Fertiliser Applications

THE APPLICATION OF THE TABLETTED AND POWDERED FERTILISERS OF THE SICOMIX® LINE

1. The tabletted SICOMIX®fertilisers

The tabletted SICOMIX® fertilisers allow the spot application which, when carried out properly, guarantees a considerably better utilisation of the supplied nutrients compared to other complex fertilisers applied broadly. The release of the nutrients from SICOMIX® into the soil continues for a period of up to 18 months depending on the local climatic and pedological conditions. SICOMIX® can be successfully applied into free soil to newly established cultures (e.g., to 1-4 years old forest trees) and to seedlings in nurseries or in flower pots.

2. The application of the tabletted SICOMIX® fertilisers into free soil

The number of the SICOMIX® tablets (10-15 g each) applied to each seedling is 4-5 (Fig. 1). The distance of the tablets from the seedling stem corresponds to the perimeter of the seedling top projection onto the soil surface. The tablets should not be placed closer than 15 cm from the seedling stem. The distance should not exceed the perimeter of the seedling top projection by more than 10 cm. Depending on the local climatic, soil and technical conditions, the SICOMIX® tablets are either placed below the soil surface at the depth of the side roots at the edge of the planting hole, about 15 cm from the seedling stem (Fig. 2), or they are put directly onto the soil surface. The tablets can alternatively be worked in closely below the soil surface by stepping on them (Fig. 3). Root level application partially prevents undesirable co-fertilisation of weed.

3. The application of the tabletted SICOMIX®fertilisers in flower pots

Plantation fertilisation : The tablets are to be laid on a layer of soil under the root bundle (Fig. 4). If more tablets are applied, they are placed evenly around the girth of the root system. Recommended application - one tablet (5-10 g each) per 1 liter of soil.

Supplemental fertilisation : The tablets are to be placed evenly either onto the soil surface or just below the surface at the distance of 5-10 cm from the plant stem (Fig. 5). Recommended application - one tablet (5-10 g each) per 1 liter of soil.

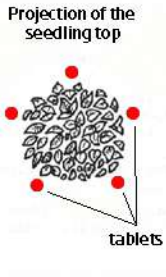

Fig.1

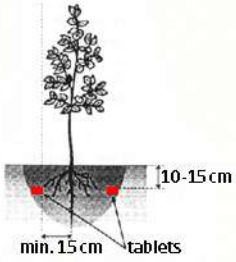

Fig.2

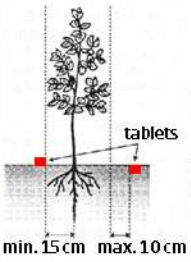

Fig.3

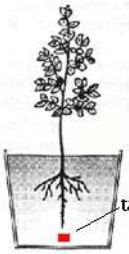

Fig.4

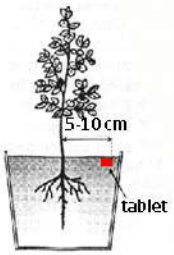

Fig.5

4. The application of the powdered SICOMIX® fertilisers into free soil

The powdered SICOMIX® fertilisers are applied by powdering 200-400 g onto each square meter of the soil surface or, alternatively, they are placed just below the surface. Repeated application with a half portion (100-200 g/m2) is recommended in the following year. For the production of forest or garden substrates, at least 3 kg of the powdered fertiliser should be mixed with 1 m3 of peat and/or mould. The application of the powdered SICOMIX® fertilisers is **very popular in forest seedling fertilisation in nurseries**.

5. The period of application

The tabletted or powdered SICOMIX® fertilisers are applied during the spring and summer seasons until the end of July. The fertilisers are successfully applied to the seedlings during the spring time in the year of plantation or in the following year. Depending on the local conditions, the fertilisers are applied at the latest in the fall (September or October). The application of the SICOMIX® fertilisers onto snow is functionally inappropriate.

Professional Packagings

All fertilizer tablets (5, 10, 15 g sizes) are available in the following packagings:

a) 20 kg polypropylene (PP) bags with polyethylene (PE) liner
b) 10 kg cardboard boxes
c) 5 kg plastic (PP) buckets with handle
d) 1 kg plastic (PP) buckets with handle

All weights are net. Packagings are labeled in English, other language versions are made on request.

20 kg Packaging:
Woven PP bag with PE liner, sewn-closed. Label is sticked on the larger side of the bag or sewn into the seam seal. dimensions (W x H): 50 x 65 cm

10 kg Packaging:
White 5-layer cardboard box, heavy duty (100 kg capacity), with tape-sealed top and bottom. Label is sticked or printed on the larger size of the box.dimensions (L x W x H): 29.7 x 26.4 x 20.7 cm

5 kg Packaging:
Green and/or white PP bucket with a lid, elliptically shaped, equipped with a metal carrying handle. Label is sticked around the bucket perimeter. dimensions (Lmax x Wmax x H): 27.5 x 20 x 19 cm
For transportation, each bucket is placed into a tape-sealed 5-layer cardboard box.
dimensions of box (L x W x H): 29.7 x 26.4 x 20.7 cm

1 kg Packaging:
Green and/or white PP bucket with a lid equipped with a metal carrying handle. Label is sticked around the bucket perimeter. The lid is equipped with a breakaway locking tab.dimensions (W x H): 13.5 x 12 cm
For transportation, 5 buckets are placed into a tape-sealed 5-layer cardboard box.
dimensions of box (L x W x H): 39.5 x 28 x 13 cm



Standard Stowage

20 kg Packagings

- PP bags with PE liner
Total of 50 bags are stacked on a EUR pallet (800 x 1200 mm) in 7 layers, tied with 2 plastic straps and stretch wrapped.

net weight: 1000 kg
gross weight: 1030 kg
load height: 160 cm

10 kg Packagings

- up to 9 layers of cardboard boxes
Total of 108 boxes are stacked on a EUR pallet (800 x 1200 mm) in 9 layers, each containing 12 boxes. The layers are separated by cardboard inserts.
Boxes on the pallet are tied with 2 plastic straps, shrink wrapped and then stretch wrapped.

net weight: 1080 kg
gross weight: 1170 kg
load height: 209 cm

5 kg Packagings

- Plastic buckets
Total of 80 buckets are stacked on a EUR pallet (800 x 1200 mm) in 5 layers, each containing 16 buckets. The layers are separated by cardboard inserts. The buckets on the pallet are shrink wrapped and then stretch wrapped.

net weight: 400 kg
gross weight: 450 kg
load height: 115 cm

1 kg Packagings

- Plastic buckets
Total of 400 buckets are stacked on a EUR pallet (800 x 1200 mm) in the following way: 5 buckets are placed into a tape-sealed 5-layer cardboard box (L x W x H = 39.5 x 28 x 13 cm).
The boxes are stacked on the pallet in 10 layers, each containing 8 boxes. The layers are separated by cardboard inserts. The boxes on the pallet are tied with 2 plastic straps, shrink wrapped and then stretch wrapped.

net weight: 400 kg
gross weight: 480 kg
load height: 150 cm

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SICOMIX Premium NR5

DESCRIPTION

SICOMIX is a range of mixed EDTA chelated micronutrients, designed for treating and preventing one or more manifest or suspected micronutrient deficiencies. SICOMIX assures high quality crops and high yield. The chelated form also assures a rapid penetration in foliar application and prolonged availability in soil application.

ANALYSIS

Magnesium Oxide (MgO)	9 %
Boron (B)	0.5 %
Iron (Fe)	4 %
Manganese (Mn)	4 %
Zinc (Zn)	1.5 %
Copper (Cu)	1.5 %
Molybdenum (Mo)	0.1 %

Copper, Iron, Manganese and Zinc are EDTA chelated. MgO is partially EDTA chelated.

DIRECTIONS FOR USE

FOLIAR APPLICATION	
Cereals	During tillering until the end: 1-1.5 kg/ha
Cotton, Soybean, Sugar Cane, Sugar Beets	One application: 1-1.5 kg/ha
Grapes	Apply 2 to 3 times: 100-150 g/hl
Citrus, apples, pears	Apply 2 to 4 times: 100-150 g/hl
Peaches, nectarines, apricots, cherries, plums	Apply 2 to 3 times: 50-100 g/hl
Cocoa, coffee	Apply 2 to 3 times: 100-150 g/hl
Vegetables	Outdoor: 100-150 g/hl * Indoor: 50-80 g/hl
Ornamentals	50-80 g/hl
FERTIGATION	
Fruit crops Vegetables Ornamentals	Treatment: 10-30 kg /ha Prevention: 3-6 kg/ha Additional applications when harvest is phased: 3-6 kg/ha

PRECAUTIONS

No health hazard is involved when SICOMIX Premium Nr. 5 is used as directed but it is advisable to:

1. Wash hands before meals and after work
2. Keep any unused powder in its original sealed packing
3. Store away from children, pets, livestock and foodstuffs

HEALTH AND SAFETY

Detailed information on handling and any precautions to be observed in the use of the product(s) described on this label can be found in our relevant Health and Safety information sheet.

No liability : the statements made on this label are believed to be true and accurate but because of conditions of use which are beyond our control, SICO doesnot make nor does it authorise any agent or representative to make any warranty or representation, expressed or implied concerning this material or the use thereof, except in conformity with the statements on the label. Neither SICO nor the seller shall be responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to other persons from handling, storage or use of this material not in accordance with directions. The buyer assumes all risks and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

25 KG NET

Sico
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Tel. +32-3-309.06.51 Fax. +32-3-309.19.31
Email : info@sico.be Website : www.sico.be

Batchnr. :	12975 M
Prod. date :	01/2016
Exp. date :	01/2021

EC FERTILISER

Sico
SLOW RELEASE TABLETS
(EC Fertiliser)
for universal use.

SICO MiX
SLOW RELEASE TABLETS

BASIC PROPERTIES

TEASER

• The Slow Release Fertiliser tablets are special fertilisers. They contain great amount of primary nutrients (nitrogen, phosphorus, potassium), important secondary nutrients (magnesium, calcium, sulfur) and the trace elements (iron, copper, zinc, molybdenum and boron) as well. Undesirable elements are not present (chlorides).
• The fertiliser tablets are mechanically rigid. The special chemical composition of formulations involving Ureaform (Urea formaldehyde) and potassium magnesium phosphates enables the soil to be supplied gradually for 6-24 months by the nutrients (depending on the soil and the climate conditions).
• In addition to slow releasing nitrogen from Ureaform the fertilising tablets contain a small portion (10-20%) of startup fast releasing nitrogen as well.
• Each tablet is a precisely made dosage of fertiliser (for instance 5 g, 10 g, 15 g, etc..) which is easy and individually applied to plant. Root level application prevents partly weed fertilisation.
• Due to the effect of slow releasing of nutrients and to the application of tablets in the close range of the plant root system the nutrients are used without any loss. The releasing of nutrients outside the root system is minimal.
• The randomly overdosing does not cause plant damage. Nevertheless, it is not recommended to place the tablets in the bottom of the planting hole. The tablets must not touch the roots.
• The tablets are either placed under the soil surface at the depth of the side roots at the edge of the planting hole or they are put directly onto the soil surface (see Figures). The number of applied tablets depend on the age of plants (see the table). If more tablets are applied they are placed symmetric around the girth of the root system.
• The fertiliser tablet dissolves very slowly. It is not recommended to apply the tablets in a solution and/or crush the tablets into powder.
• The slow release fertiliser tablets are marked environmental friendly compared to the fast releasing agricultural ones.
• Our 18 different formulations in tablets are the basic offer convenient for the broad usage of plants and soil conditions.

RECOMMENDED USE

Our Slow Release Fertiliser tablets can be used universally. Due to very slow dissolving of nutrients to the soil they are ideally suited especially for the fertilising of perennial plants and young seedling plants (1-4 old) primarily in regions with rigorous demands on an environmentally safe approach to plant nutrition.The tablets are applied on free land, greenhouses and into vessels respectively as well as they are used for supplemental fertilisation of plants grown on free land, in pots and in containers:

- Fruit, ornamental and forest trees and shrubs
- Flower shrubs, flowers
- Conifers and bonsai trees
- Tropical and subtropical plants
- Wetland plants (water-lily)
- All perennial plants growing on unfertile, acidic, eroded and degraded soils (including the forest, reclaimed soils, mine dumps, areas around the roads and high ways).

OUR CUSTOMERS

· Professionals
Forest people, ornamental garden people, landscape planners, fruit-growers, plantation-owners (tea-shrubs, cotton-plants, palms, banana-trees, coffee-trees, citrus fruit trees, orange trees, olives, nut trees etc.), reclaiming companies, producers of water-lilies, maintaining of municipal greenery, amenity planting around the roads and high-ways.

· Hobby
Gardeners, home flower growers

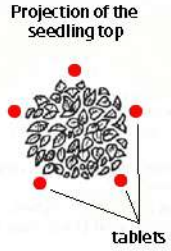

Fig. 1

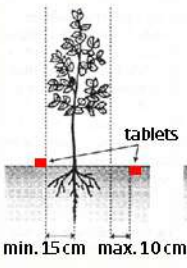

Fig.2

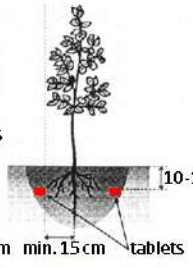

Fig.3

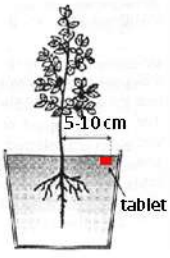

Fig.4

Crown Diameter (meters)	Minimal Amount of Fertilizer (grams)	NUMBER OF TABLETS Tablet(g)		
		5	10	15
0.5	40 - 60	8 - 12	4 - 6	3 - 4
1.0	80 - 120	16 - 24	8 - 12	6 - 8
1.5	120 - 180	24 - 36	12 - 18	8 - 12
2.0	160 - 240	32 - 48	16 - 24	11 - 16
2.5	200 - 300	40 - 60	20 - 30	14 - 20
3.0	240 - 360	48 - 72	24 - 36	16 - 24