

PROFESSIONAL LINE

High-quality professional cultivation substrates



Why Arber?

Arber is the surname of British scientist **Agnes Robertson** Arber, an anatomist and plant morphologist, philosopher of biology, and historian of botany. She became well-known for her significant contributions to scientific research, initially focused on monocotyledon flowering plants. She also contributed to morphological research and botanical studies. In the latter part of her life, her work focused on the philosophy of botany, particularly the nature of biological research.

We chose the name Arber for our company because, like Agnes Arber, our **passion for horticulture** is the guiding star of our daily commitment to clients and stakeholders.

Our Story

Our company was founded in 1996 from the founder's passion for horticulture and botany, which led to the creation of **Sudest Europe**: a family-run business that is now a leader in the sale of both hobbyist and professional substrates for horticulture and floriculture.

In 2016, we **rebranded** as **Arber Horticulture** for two main reasons. Firstly, to express our passion and commitment to horticulture: the name Arber is inspired by Agnes Arber, one of the world's most important botanists. Secondly, the rebranding from Sudest Europe to Arber Horticulture reflects our broader business scope: from an Italian-based company originally named Sudest Europe, reflecting its location in Southeast Europe operating mainly in the local market, to a company now selling products worldwide.

Arber Horticulture is fully dedicated to helping growers achieve the best results in their horticultural production. What sets us apart is the **quality** of our products and our **customer orientation**.

Our Business Lines



Professional Line

Professional substrates
Growbags
Raw Materials



Hobby Line

Hobby substrates
Plant Care Products

Customer Orientation

Together with our partners, we strive to ensure ongoing **technical research** and the **best customer support** for growers. Arber products are created to provide optimal formulas and technologies to meet our customers' horticultural production needs.

The quality

Arber Horticulture produces and markets a full range of substrates for horticulture and biomass. Our peat bogs and processing facilities, mainly located in the **Baltic countries and Germany**, have quality management systems aligned with **ISO 9001** standards and comply with European regulations, as members of the European Peat and Growing Media Association (EPAGMA).

Production Zones

	Blonde peat	Black Peat	Cocopeat	Coconut Fiber	Wood Fiber	Substrates	Vermiculite	Mulches
 Estonia	✓							
 Latvia	✓	✓						
 Lithuania	✓	✓			✓	✓		
 Germany	✓	✓	✓	✓	✓	✓		✓
 Belgium							✓	
 Italy						✓		✓



Sustainability

Arber Horticulture is committed to **environmental protection**. One of our goals is the responsible use of natural resources and to promote sustainable peat extraction. We work with our partners to support wetland restoration and compliance with modern quality management standards.

Our professional substrates

Thanks to their excellent chemical, physical, and biological properties, white and/or black sphagnum peat is the main component of our substrates. Other components are added based on specific cultivation goals. Our over 500 formulas have been developed and tested to provide high-quality, reliable products for professional growers. Our flexible production system also allows us to create **custom mixes** on request

7M m³ of substrates sold since 1996

Clients in 20+ countries

News



Mus-RK1

Cover substrate for champignon mushrooms, promoting vigorous mycelium growth with compact fungi and high yields in all harvest cycles. Discover it on page 17.



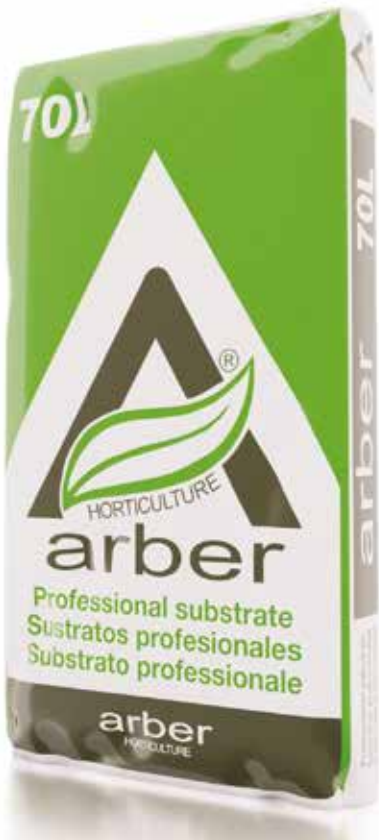
Growbags

Grow bags with plastic coating and holes for the production of tomatoes and other vegetables. Discover it on page 24.



AR Containermulch

Innovative blend of wood fiber and thermally sanitized wood chips, designed to function both as mulch in pots and garden beds. Discover it on page 26.



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Bio Substrates



Bio Seeding

Bio Seeding

Organic sowing substrate.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	287	Kg/m³
	pH:	5.4-6.2	

Fertilization

Oko Mix 4

Oko Mix 1

Radigen

Additives

Wetting agent



70L
Q./plt
42



Big Bale
Q./plt
1

Structure: Fine

Physical characteristics

Blonde peat

Black peat

Extra-fine wood fiber

Cocopeat

High-quality compost



Bio Aromas G1

Basil and aromatic plants

Organic substrate for growing basil and aromatic plants.

Chemical characteristics

	Conductivity:	0.5-0.6	mS/cm
	Dry bulk density:	239	Kg/m³
	pH:	5.4-6.2	

Fertilization

Ecofert

Additives

Wetting agent



70L
Q./plt
42



Big Bale
Q./plt
1

Structure: Medium

Physical characteristics

Blonde peat

Black peat

Regular wood fiber

Cocopeat

High-quality compost



Pressed Seeding Cubes



Press RK-W

Sowing in containers and pressed cubes

Substrate with a mix of blonde and black peat, suitable for year-round use.

Chemical characteristics

	Conductivity:	0.4-0.7	mS/cm
	Dry bulk density:	270-280	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Radigen

Additives

Calcareous pH corrector

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure: Fine**

Physical characteristics

Blonde peat

Black peat



Unipot Seeding 70/30

Sowing in containers and pressed cubes

Substrate for sowing with a higher amount of black peat.

Chemical characteristics

	Conductivity:	0.7-1.3	mS/cm
	Dry bulk density:	180-190	Kg/m³
	pH:	5-6	

Fertilization

PG Mix

Radigen

Additives

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure: Fine**

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



DX Summer

Sowing during the summer months

Recommended substrate for sowing during the summer months.

Chemical characteristics

	Conductivity:	0.6-1.0	mS/cm
	Dry bulk density:	162-198	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Radigen

Additives

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure: Fine**

Physical characteristics

Blonde peat

Black peat



DX Seeding

Sowing in containers

Balanced substrate with extra-fine structure, ideal for sowing in containers.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	143-175	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Radigen

Additives

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure: Fine**

Physical characteristics

Blonde peat

Black peat



DX-OX

Sowing in pressed cubes

Balanced substrate with extra-fine structure and added Oxywet, specifically designed for sowing in pressed cubes.

Chemical characteristics

	Conductivity:	0.4-0.8	mS/cm
	Dry bulk density:	260-270	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Additives

Oxywet

Wetting agent

Physical characteristics

Blonde peat

Black peat

Structure: Fine

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Press Top

Sowings and pressed cubes

Versatile substrate for sowings and pressed cubes, produced in Germany using only German black peat.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	341	Kg/m³
	pH:	5.2-6	

Fertilization

PG Mix

Additives

Wetting agent

Physical characteristics

Blonde peat

Black peat

Extra-fine wood fiber
Cocopeat

Structure: Extra-fine

70L
Q./plt
42Big Bale
Q./plt
1

DX Seeding + Perlite

Sowing in containers

Balanced substrate with extra-fine structure, ideal for sowing in containers. The presence of perlite increases root aeration, ensuring better drying.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	143-175	Kg/m³
	pH:	5-6	

Fertilization

PG Mix

Radigen

Additives

Wetting agent

Physical characteristics

Blonde peat

Black peat

Perlite

Structure: Fine

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Tray SSF3

Sowings

Specific substrate for container sowings, produced in Germany.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	281	Kg/m³
	pH:	5.2-6	

Fertilization

PG Mix

Radigen

Additives

Wetting agent

Physical characteristics

Blonde peat

Black peat

Extra-fine wood fiber

Structure: Fine

70L
Q./plt
42Big Bale
Q./plt
1

DX-60 W 0-10 + Perlite

Sowing of cucurbits

Substrate for sowing melons, zucchinis, and various cucurbits.

Chemical characteristics

Conductivity:	0.7-1.3	mS/cm
Dry bulk density:	210-220	Kg/m ³
pH:	5.5-6.5	

Fertilization

PG Mix

Radigen

Additives

Calcareous pH corrector

Wetting agent



70L
Q./plt
42



250L
Q./plt
18



Big Bale
Q./plt
1

Structure: Medium-fine

Physical characteristics

Blonde peat

Black peat

Perlite



Specific formulas



Taleas S5

Cuttings

Light and highly draining substrate. Specifically enriched with perlite to facilitate both green and woody cuttings.

Chemical characteristics

Conductivity:	0.4-0.6	mS/cm
Dry bulk density:	161-196	Kg/m ³
pH:	5.2-6	

Fertilization

PG Mix

Additives

Sand

Wetting agent



70L
Q./plt
42



250L
Q./plt
18



Big Bale
Q./plt
1

Structure: Medium-fine

Physical characteristics

Blonde peat

Black peat

Perlite



Dipladenia

Dipladenia

Substrate for pot cultivation of dipladenia.

Structure: Medium-coarse

Pot size: 14 cm

Chemical characteristics

Conductivity:	0.6-1	mS/cm
Dry bulk density:	118-144	Kg/m ³
pH:	5.5-6.5	

Fertilization

PG Mix

Additives

Wetting agent



70L
Q./plt
42



250L
Q./plt
18



Big Bale
Q./plt
1

Physical characteristics

Blonde peat

Black peat

Perlite



Blueberry K1 + Perlite

Blueberry

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Ideal substrate for pot cultivation of blueberries.

Structure: Medium-coarse
Pot size: 16 cm

Chemical characteristics

	Conductivity:	0.1-0.3	mS/cm
	Dry bulk density:	150-160	Kg/m ³
	pH:	3.5-4.5	

Fertilization

PG Mix

Additives

Wetting agent

Physical characteristics

Blonde peat

Black peat

Coconut fiber

Perlite



Cactus LPX1

Succulent plants

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Substrate for the cultivation of succulent and cacti plants in medium to large pots. The high content of inert materials such as pumice and lava rock reduces drying time, preventing root rot.

Structure: Medium-coarse
Pot size: 14 cm

Chemical characteristics

	Conductivity:	0.4-0.6	mS/cm
	Dry bulk density:	162-198	Kg/m ³
	pH:	5-6	

Fertilization

PG Mix

Additives

Wetting agent

Physical characteristics

Blonde peat

Pumice

Lava rock



Acid

Azaleas and acid-loving plants

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Substrate for the cultivation of azaleas and acid-loving plants.

Structure: Medium-coarse
Pot size: 14 cm

Chemical characteristics

	Conductivity:	2-3	mS/cm
	Dry bulk density:	118-144	Kg/m ³
	pH:	3-4.5	

Fertilization

PG Mix

Additives

Wetting agent

Physical characteristics

Blonde peat

Black peat



Camellia

Camellia

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Substrate for pot cultivation of camellia.

Structure: Medium-coarse
Pot size: 14 cm

Chemical characteristics

	Conductivity:	0.4-0.6	mS/cm
	Dry bulk density:	161-196	Kg/m ³
	pH:	5.2-5.8	

Fertilization

PG Mix

Radigen

Additives

Micromax

Wetting agent

Physical characteristics

Blonde peat

Black peat

Regular wood fiber

Perlite



Poncicl DKX

Poinsettias and cyclamens

Substrate specially formulated for the cultivation of Poinsettias and Cyclamens.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	141-72	Kg/m³
	pH:	5.2-6	

Fertilization

PG Mix
Radigen

Additives

Clay
Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Structure: Medium-coarse
Pot size: 14 cm

Physical characteristics

Blonde peat
Black peat
Regular wood fiber
Perlite



Basil Pot-14

Aromatic plants

Professional substrate specially formulated for the cultivation of all aromatic and medicinal plants.

Chemical characteristics

	Conductivity:	1.0-1.4	mS/cm
	Dry bulk density:	141-72	Kg/m³
	pH:	5-6	

Fertilization

PG Mix
Radigen

Additives

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Structure: Medium-coarse
Pot size: 12-14 cm

Physical characteristics

Blonde peat
Black peat
Regular wood fiber
Perlite



Poinsettia

Poinsettia

Substrate designed for Poinsettias, produced in Germany.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	141-72	Kg/m³
	pH:	5.2-6	

Fertilization

PG Mix
Radigen

Additives

Clay
Wetting agent

70L
Q./plt
42Big Bale
Q./plt
1

Structure: Medium-coarse
Pot size: 14 cm

Physical characteristics

Blonde peat
Black peat
Regular wood fiber
Perlite



Chrys KDX

Chrysanthemums

Substrate specially formulated for the cultivation of chrysanthemums.

Chemical characteristics

	Conductivity:	1.0-1.4	mS/cm
	Dry bulk density:	160-196	Kg/m³
	pH:	5-6	

Fertilization

PG Mix
Osmocote

Additives

Clay
Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1

Structure: Medium-coarse
Pot size: 14-18 cm

Physical characteristics

Blonde peat
Black peat
Regular wood fiber



Acni V18

Actinidia

Professional substrate for medium pot cultivation of actinidia plants.

Chemical characteristics

🌡️	Conductivity:	1.1-1.4	mS/cm
🌱	Dry bulk density:	160-196	Kg/m ³
📏	pH:	5-6	

Fertilization

PG Mix

Additives

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure:** Medium-coarse**Pot size:** 14-18 cm

Physical characteristics

Blonde peat

Black peat

Perlite



Repotting substrates



Mus-RK1

Mushrooms

Casing substrate for champignon mushrooms promoting vigorous mycelium growth with compact mushrooms and high yields throughout all harvest cycles.

Chemical characteristics

🌡️	Conductivity:	<0.5	mS/cm
🌱	Dry bulk density:	750-850	Kg/m ³
📏	pH:	7.3-7.5	

Additives

Calcareous pH corrector

Big Bag
1,4 mc**Structure:** Coarse

Physical characteristics

Black peat



Florigen Plus

Medium-short cycle plants

Substrate suitable for the cultivation of geraniums and medium-short cycle flowering plants in 12-14 cm diameter pots during the summer months.

Chemical characteristics

🌡️	Conductivity:	1.1-1.4	mS/cm
🌱	Dry bulk density:	126-154	Kg/m ³
📏	pH:	5.5-6	

Fertilization

PG Mix

Radigen

Additives

Clay

Wetting agent

70L
Q./plt
42250L
Q./plt
18Big Bale
Q./plt
1**Structure:** Medium**Pot size:** 12-14 cm

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



Minipot

Short-cycle plants

Recommended substrate for the cultivation of short-cycle annual plants.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	149-182	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Additives

Radigen

Clay

Wetting agent


70L
Q./plt
42

250L
Q./plt
18

Big Bale
Q./plt
1

Structure: Medium
Pot size: 10-12 cm

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



Unipot Medium

Medium cycle plants

Ideal substrate for cultivation in medium-large pots and medium cycle crops.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	118-144	Kg/m³
	pH:	5.5-6	

Fertilization

PG Mix

Additives

Radigen

Wetting agent


70L
Q./plt
42

250L
Q./plt
18

Big Bale
Q./plt
1

Structure: Medium
Pot size: 14-16 cm

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



Unipot 7-20

Medium-short cycle plants

Substrate for repotting medium-short cycle plants during the winter months.

Chemical characteristics

	Conductivity:	0.8-1.5	mS/cm
	Dry bulk density:	190-200	Kg/m³
	pH:	5-6	

Fertilization

PG Mix

Additives

Wetting agent


70L
Q./plt
42

250L
Q./plt
18

Big Bale
Q./plt
1

Structure: Medium
Pot size: 12-14 cm

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



Unipot Maxi

Medium-long cycle plants

Ideal substrate for cultivation in large pots and medium-long cycle crops.

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	118-144	Kg/m³
	pH:	5-6	

Fertilization

PG Mix

Additives

Radigen

Wetting agent


70L
Q./plt
42

250L
Q./plt
18

Big Bale
Q./plt
1

Structure: Medium-coarse
Pot size: 16 cm

Physical characteristics

Blonde peat

Black peat

Regular wood fiber



Forest X

Long cycle plants

Professional substrate with high content of Italyn pumice, ideal for repotting long-cycle outdoor plants.

Chemical characteristics

Conductivity:	1.1-1.4	mS/cm
Dry bulk density:	160-196	Kg/m³
pH:	5-6	

Fertilization

PG Mix

Additives

Wetting agent

Structure: Coarse

Pot size: 14 cm

Physical characteristics

Blonde peat

Pumice

High-quality compost

Forest FR Type 3

Medium-long cycle plants

Professional substrate with high content of Swedish pumice, ideal for repotting medium-long cycle outdoor plants.

Chemical characteristics

Conductivity:	0.8-1.5	mS/cm
Dry bulk density:	230-240	Kg/m³
pH:	5.5-6	

Fertilization

PG Mix

Additives

Wetting agent

Pumice

Structure: Medium-coarse

Pot size: 18 cm

Physical characteristics

Blonde peat

Regular wood fiber

Lawn-Sport

Sports lawns

Professional substrate for sports lawns with Vulcamix.

Chemical characteristics

Conductivity:	0.6-1	mS/cm
Dry bulk density:	143-175	Kg/m³
pH:	5-6	

Fertilization

PG Mix

Additives

Radigen

Wetting agent

Structure: Fine

Physical characteristics

Blonde peat

Vulcamix

High-quality compost





Lawn-Garden

Turf lawns



70L
Q./plt
42



250L
Q./plt
18



Big Bale
Q./plt
1

Substrate for soil preparation and turfgrass seeding.

Structure: Medium

Chemical characteristics

	Conductivity:	1-1.4	mS/cm
	Dry bulk density:	155-189	Kg/m ³
	pH:	5-6	

Fertilization

PG Mix

Additives

Sand

Wetting agent

Physical characteristics

Blonde peat

Black peat



Top Soil 2

Roof gardens



70L
Q./plt
42



Big Bale
Q./plt
1

Substrate specifically designed for roof gardens. It has high permeability to prevent waterlogging, a structure that does not compact over time, and ensures a high oxygen supply.

Structure: Medium

Chemical characteristics

	Conductivity:	0.6-1	mS/cm
	Dry bulk density:	118-144	Kg/m ³
	pH:	6.5-7.5	

Fertilization

PG Mix

Additives

Sand

Wetting agent

Physical characteristics

Blonde peat

Pumice

Lava rock



Growbags





Vegetable Growbags



Tomatoes and vegetables

Grow bags with plastic coating and holes for tomato and other vegetable production. UV protection guaranteed for 3 years.

Structure: Coarse

Chemical characteristics

	Conductivity:	0.7-1.45	mS/cm
	Dry bulk density:	210-220	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Additives

Calcareous pH corrector

Wetting agent

Physical characteristics

Blonde peat

Black peat

Peat fiber

Coconut fiber



Growbags
100x18x16 cm
100x18x14 cm
100x18x12 cm
100x15x12 cm



Strawberry Growbags



Strawberries

Grow bags with plastic coating and holes for strawberry production. UV-resistant for at least 3 years.

Structure: Coarse

Chemical characteristics

	Conductivity:	1.0-1.8	mS/cm
	Dry bulk density:	210-220	Kg/m³
	pH:	5.5-6.5	

Fertilization

PG Mix

Radigen

Additives

Clay

Wetting agent

Physical characteristics

Blonde peat

Black peat

Peat fiber

Coconut fiber



Growbags
100x18x16 cm
100x18x14 cm
100x18x12 cm
100x15x12 cm

Mulches



AR Containermulch



70L
Q./plt
42



Big Bale
Q./plt
1

AR Containermulch is an innovative blend of wood fiber and thermally sanitized wood chips, designed to function both as mulch in pots and garden beds. Thanks to its light and breathable structure, it creates a **protective layer that drastically reduces water evaporation**—a crucial advantage during the hotter months and in pots—and **effectively hinders the growth of weeds**, keeping the surrounding area clean and tidy.

Beyond its main functions, AR Containermulch acts as **thermal insulation**, protecting roots from temperature spikes and promoting denser, more vigorous root development. Over time, it **naturally decomposes**, returns nutrients to the soil, and helps reduce erosion on sloped land. Plants mulched with AR Containermulch also offer an attractive visual impact at points of sale and support more sustainable management by reducing the need for chemical herbicides.

For optimal application, it is recommended to spread a uniform layer of 2–3 cm on the pot or cultivation soil.





Vermiculite



100L
Q./plt
33



Big Bale
Q./plt
1

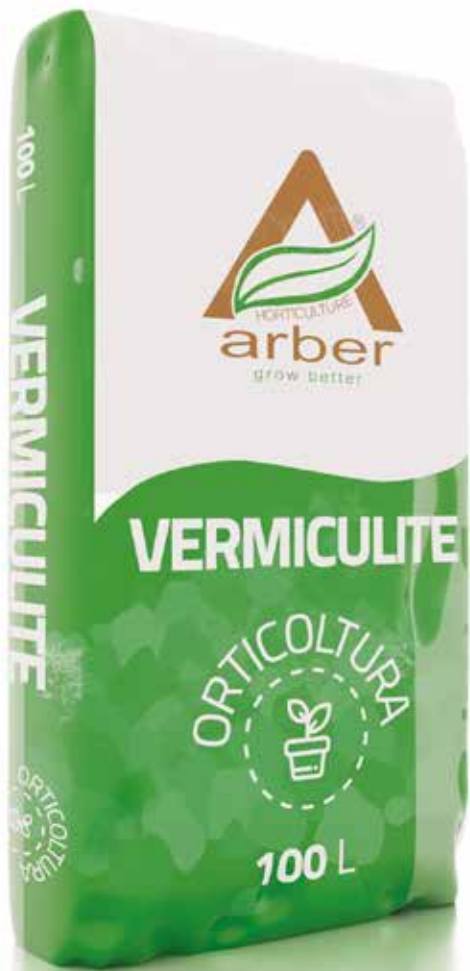
Arber Vermiculite is a naturally occurring mineral that is thermally expanded, ideal for improving water retention, aeration, and root protection in professional cultivation. **Thanks to its layered structure, it holds water and nutrients, releasing them gradually to promote balanced plant growth.**

Vermiculite is lightweight, stable, and chemically inert, **free from pathogens and toxic substances**, making it an excellent choice for horticulture, seed germination, and cutting rooting. Advantages of Arber Vermiculite:

- Dust-free
- High water retention with gradual moisture release
- Improves aeration and root protection
- Lightweight, stable, and durable material
- 100% natural and pathogen-free
- Ideal for professional substrates and plant propagation
- Consistent production and regular deliveries



Available granulometries: 0-2 mm and 0-4 mm



Raw materials



	Granulometry	Bag 10L	Bag 45L	Bag 50L	Bag 100L	Big Bale
Pumice	3 - 8 mm	-	-	X	-	X
volcanic lava rock	3 - 5 mm	-	-	-	-	X
	5 - 10 mm	-	-	-	-	X
Perlite	2 - 6 mm	-	-	-	X	-
Expanded clay	-	X	X	-	-	-

	Granulometry	pH standard	Variable pH	Bag 250L	Big Bale
Blonde peat from blocks	0 - 40 mm	X	X	X	X
	0 - 10 mm	X	X	-	X
	10 - 40 mm	X	X	-	X
	20 - 40 mm	X	X	-	X
Black peat	0 - 10 mm	X	X	X	X
	0 - 20 mm	X	X	X	X

Additives

Oxywet Material made from high-quality Swedish clay, free of contaminants such as heavy metals, sodium, chloride, and dioxins. It is used as a **natural wetting agent** in substrates to keep peat moist and distribute water throughout the substrate.

Micromax It is a **slow-release fertilizer** with a nutrient duration of up to 18 months. It is designed to fully optimize the effectiveness of micronutrients and macronutrients and is

Potmix Additive easy to mix with peat and other substrate components. It helps improve **retention and the gradual release of fertilizers and water**. Additionally, it **normalizes pH**

This increases oxygen levels in the lower parts of the container, facilitating the growth of horticultural and floricultural crops.

recommended for the cultivation of all types of plants.

and absorbs harmful substances such as toxins, pathogens, and/or heavy metals.



Glossary

Peat Peat is a deposit of waterlogged plant remains and forms in soils saturated with water in the absence of oxygen and hydrogen. It is especially combined with garden and vegetable soil because, being acidic and fibrous, it makes the soil light and soft. Peat is classified into blonde, brown, and black types. Blonde peat is extracted from the upper layers of the peat bog and is minimally decomposed, while **brown and black peat** are

taken from deeper layers and have a medium to high degree of decomposition. Blonde peat is characterized by greater fibrosity and porosity, whereas brown and black peat have higher density and water retention capacity. **Products containing 90–100% high-quality peat currently represent the most effective solution for the most demanding professional and hobbyist growers.**

Coconut fiber Material used in hydroponic cultivation obtained by removing fine dust from coconut husk. It promotes **root development** and, although it retains air even

when fully saturated, it **dries** more slowly than many other substrates used in soilless cultivation.

Cocopeat Substance extracted from the pith inside the coconut shell. Its **antifungal properties** make it a good substrate for seed sowing. Coconut peat is also used as a soil

amendment, soaking mixture, and in hydroponic production.

Perlite Inorganic mineral of volcanic origin, with a color varying from gray to pink, and a porous, rounded shape. Expanded perlite is obtained through a thermal expansion process during which granules form inside, providing high lightness and good physical properties for use in agriculture, in soils, potting mixes, and as is. Expanded perlite is therefore used both as a soil amendment and as a **corrective in cultivation substrates**, helping to recreate an ideal habitat for

the life cycle of every plant. Thanks to its porous structure, it allows the production of well-draining soils and mixes that enable continuous gas exchange with the external environment. Finally, expanded perlite **protects plant root systems** from temperature fluctuations by maintaining a constant temperature, thereby promoting normal crop development.

Vermiculite Material capable of **improving substrate aeration**. It does not deteriorate or rot and can protect seeds

and young plants from fungal attacks.

Volcanic lava rock Eco-friendly volcanic granules with **excellent mulching** and weed control properties, suitable for use in gardens, parks, and flower beds. Its uniform granulometry allows for easy application, reducing installation time while delivering particularly appealing aesthetic results. The micro-porosity of the granules provides good **thermal**

insulation, while its capacity to store water reserves helps **reduce soil drying**. The intense color also serves a decorative purpose. Being a hygroscopic product, it may experience variations in weight.

Pumice Pumice is the result of the expansion of effusive magmatic mineral, producing a highly porous and notably lightweight material. It has great **water retention capacity and releases liquids slowly**. This is a completely natural and

ecological product suitable for floricultural applications, where it is already widely used.

Vulcamix Vulcamix is a ready-to-use product, easy to apply, free from harmful substances and weed seeds, which effectively replaces silica sands in the **treatment and replenishment of turfgrass** (top dressing). It helps create lawns suitable

for intensive use (up to 500 hours/year) by promoting the **development of root systems**. It is also ideal for vertidrain operations as a corrector of the soil's chemical and physical characteristics.

Clay It appears in the form of small pebbles made of baked clay. Expanded clay is a porous medium that is extremely

favorable for the **development of the plant's root system**.

Calcareous pH corrector Material used to **increase the pH** of a substrate.

Notes



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