



ARABIAN
VERMICULITE
INDUSTRIES



VERMICULITE



POTTING
SOIL



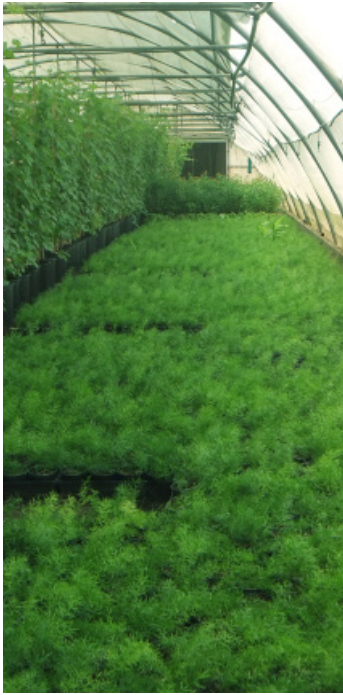
PEAT MOSS
&
SUBSTRATES



PERLITE



Product Catalogue | Horticultural



Arabian Vermiculite Industries

High Quality Horticultural Products

Ensuring Growth and Sustenance in Extreme Weather Conditions

Arabian Vermiculite Industries (AVI), a member of Khalifa Abdurahman Algosaiabi Group, Saudi Arabia, has licensed its technology from W.R. Grace, U.S.A., a market leader in the Horticultural field.

AVI Horticultural Division offers a lineup of Gardening Products for green houses to large landscapes to kitchen gardens. Our products conform to the highest quality standards and are used extensively by commercial growers and gardening enthusiasts.

AVI products are designed to cover the entire spectrum of the market, this objective reflects in the variety of products as well as the convenient packaging which facilitates in transportation and during time of application.

As a local manufacturer in Saudi Arabia, AVI offers continuous customer service and has a dedicated technical team for support. AVI has supplied the market with horticultural products for over 30 years. Some of our clients include Saudi Aramco, Royal Commission, Saudi Arabia, and other prestigious projects across the Kingdom.

AVI products include Horticultural Perlite, Horticultural Vermiculite, Potting Soils, and Peat Moss - all raw materials are imported from countries worldwide to ensure the highest quality products.

Agrolite Perlite

Agrolite Perlite can be used pure or mixed as a substratum of our soil culture as well as a propagation substrate because it provides a good balance between water retention and aeration at the level of root zone ensuring optimal development for the plant.

The advantages of using **Agrolite Perlite** as a soil conditioner:

- Soil compaction is reduced
- Ensures good air-water equilibrium at root zone
- Good retention of water and nutrients
- Reduces water loss
- Inorganic and does not deteriorate
- Sterile and does not contain pathogens and toxic substances
- Acts as an insulator in reducing soil temperatures
- Has essentially neutral pH of 6.5 to 7.5 holds moisture up to 3 to 4 times of its weight
- Odorless, clean and lightweight

Applications

- Seed Germination
- Indoor and Outdoor Plants
- Grass Areas (All Types of Turfs)
- Hydroponics

Physical Characteristics

Packing	100 liters bag
Color	White
Smell	Odorless
Solubility in Water	Less than 1%
pH	6.5 to 7.5
Total Porosity	95.6

Chemical Properties

Silicon Oxide	45.65 mm
Aluminum Oxide	175
Potassium Oxide	5%
Sodium Oxide	4%
Trace Elements	Smaller percentages



Agrolite Vermiculite

Agrolite Vermiculite is a micaceous mineral (chemically hydrated magnesium aluminum silicate) when heated at 1600°F, it expands in volume by 15 times, providing an extremely large surface area. This allow to absorb moisture and nutrients and make it available to the plant roots when required. The shape, size and physical properties of this material allow the passage of air, providing optimum aeration to the roots, regulates the pH of the soil and provides the plants with controlled fertilizer feed due to its high cationic exchange properties.

Agrolite Vermiculite is inorganic and does not deteriorate. It exhibits excellent water retention, improves soil aeration, free from weeds and diseases, reduces soil temperature, clean, odorless, lightweight and easy to handle.

Arabian Vermiculite Industries is the only manufacturer of this product in the Gulf Region.

Applications

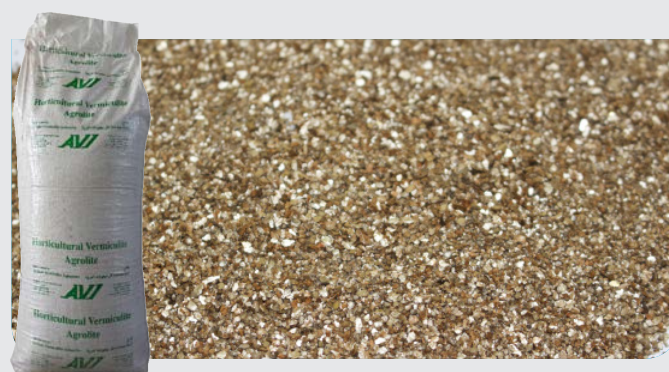
- Encourages quicker seed germination
- Suitable for small cuttings and bulbs
- Making potting soils
- Grass areas
- Hydroponics

Physical Characteristics

Packing	100 liters bag
Color	Brown
Size	0 to 3mm
pH	6 to 7.5
Water Retention	530%

Chemical Properties

Silicon Oxide	38-46%
Magnesium Oxide	16-24%
Aluminum Oxide	11-16%
Ferrous Oxide	8-13%
Trace Elements	Smaller percentages



Plantaflor® PeatMoss

Peat Moss is a purely natural product from decomposed plants and falls into boggy waters. The quality depends on degree of decomposition. It has good structural stability, ideal soil conditioner for a wide range of landscape and garden projects, high water absorption and adequate water retention capacity. It is organic in nature, hence, decomposes in soil fast.

Peat is the essential element on which the special properties of growing substrate are based an essential component in any type of soil mix for all types of landscape and garden projects. As the nutrient value is very small, the soil mixes should be added with required fertilizers.

Physical Characteristics

Packing	6 cu. ft. bale
Degree of Decomposition	H2 to H5
Color	Light to dark brown
Porosity (Vol%)	95 to 98
pH	Approx. 3.0 to 4.0
Organic Matter Content	94 to 98% by weight
Organic Carbon	55 to 60% by weight

Chemical Properties

Nitrogen Total	0.9 - 1.1 weight %
Phosphates Total	0.02-0.1 weight %
Potassium Total	0.03-0.05 weight %

Plantaflor® Peat Moss is manufactured by SAB Syker Agrarberatungs - und Handels GmbH & Co. and distributed by Arabian Vermiculite Industries.



Peat Substrates

SAB Substrate 1 is a product through mixing techniques, the individual components are precisely mixed with technical perfection to produce the ideal solution for every type of use in the field of Horticulture.

Graded Peat is taken and blended with clay, sand and quality tested bark humus followed by addition of selected special composts, pulverised limes and additional trace elements complete the mixture.

A basic substrate for sowing, rooting, cuttings, bedding plants, flowering, potted and re-potting plants. This Peat Substrate is pH adjusted, contains trace elements and wetting agent as an excellent basis for producing Horticultural substrates.

Physical Characteristics

Packing	340 liters bale
Organic Content (C)	Approx. 140-220
Organic Matter	55-60
pH (H ₂ O)	5.9-6.4
Porosity (Vol%)	90-95
Air Capacity (Vol%)	60-70

Chemical Properties

Total Nitrogen	Approx. 100-180
Total Phosphates	Approx. 120-200
Salt Level (KCl, g/l)	35-40

SAB Substrate 1 is manufactured by SAB Syker Agrarberatungs - und Handels GmbH & Co. and distributed by Arabian Vermiculite Industries.



Potting Soils

Plantaflor® SAB Profi Substrates

Plantaflor® SAB Profi Substrates (Potting Soil) is the ideal special mix for growing flowers and vegetables. This ready-to-use product is made of high quality peat moss and suitable additives. It is highly recommended for indoor plants.

Characteristics of Plantaflor® SAB Profi Substrates:

- *High-quality peat imported from North Germany*
- *Good water and air retention capacity*
- *Good structure stability*
- *Free from harmful substances*
- *Optimum pH-value*
- *Optimum fertilization level*
- *Uniform quality*

Physical Characteristics

Packing	80 liters
Slightly Decomposed Peat	35-50%
Strong Decomposed Peat	50-65%
Volume Weight	Less than 480 g/l
Salt Content	0.8-1.5 g/l
Porosity (Vol%)	90

Chemical Properties

Total Nitrogen	140 mg/l
Total Phosphates	200 mg/l
Total Potash	240 mg/l

Plantaflor® SAB Profi Substrates is manufactured by SAB Syker Agrarberatungs - und Handels GmbH & Co. and distributed by Arabian Vermiculite Industries



Gardenflor Potting Soil

Gardenflor Potting Soil is a locally produced soil mix, using German peat with added ingredients such as Perlite Vermiculite Gypsum and fertilized with NPK, to give a good strat for all types of indoor and outdoor plants.

It is an excellent growing medium for potted plants and all types of garden plants, grasses and vegetables.

This ready-to-use soil is packed in convenient sizes for all types of gardeners from landscapers to nurserymen to housewives for easy handling of their gardens.

Benefits:

- *Promotes healthy plant growth*
- *Good root development*
- *High water holding capacity*
- *Good soil aeration and drainage*

Physical Characteristics

Packing	80 lts, 50 lts, 20 lts and 10 lts
Organic Matter Content	90%
Water Retention	70%
pH	5-6

Chemical Properties

Total Nitrogen	50-120 PPM
Total Phosphorous	9-30 PPM
Total Potash	100-200 PPM
Micro Nutrients	Smaller percentages





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