

Technical data sheet

STOCKOSORB® 660 Powder, Micro, Medium, XL

For a more efficient use of available water and plant nutrients resources –
in Agriculture, Horticulture, Fruticulture, Silviculture, Ornamentals, Landscaping & Land Reclamation

Product description

STOCKOSORB® 660 increases the plant available water and nutrient holding capacity, aeration balance and structure of soils, substrates and potting mixes. Consequently, water and nutrients are available to the plant for a longer period of time, resulting in stronger and healthier plant growth even under hot and dry climatic conditions. As STOCKOSORB® 660 stores water and nutrients in the root zone, water deep percolation as well as fertilizer leaching can be prevented.

This allows for a reduction in irrigation frequency and thus irrigation costs. Furthermore, STOCKOSORB® 660 increases soil porosity and enhances the water infiltration rate of soil to an extent that surface water run-off and soil erosion can be significantly reduced.

Physical Properties	STOCKOSORB® 660 Powder STOCKOSORB® 660 Micro	STOCKOSORB® 660 Medium STOCKOSORB® 660 XL
Basis	Crosslinked polyacrylic acid homopolymer, partially potassium neutralised	
Appearance	Free flowing white granules	
Particle Size Distribution [mm]	660 Powder: < 0.2 660 Micro: 0.2 – 1.0	660 Medium: 1.0 – 2.5 660 XL: 2.0 – 4.0
Bulk density [g/l]	660 Powder: 600 ± 100 660 Micro: 600 ± 100	660 Medium: 550 ± 100 660 XL: 450 ± 100
Solubility	Insoluble in water – swell to gel upon contact with aqueous solutions	
pH-value (1 g/l H ₂ O)	7.0 – 8.5	
Minimum Absorption – Under free swelling conditions		
1) Deionized water [ml/g]	660 Powder: > 240 660 Micro: > 260	660 Medium: > 260 660 XL: > 250
2) Tap-Water [ml/g] (1.3 mmol/l CaCO ₃)	660 Powder: > 160 660 Micro: > 180	660 Medium: > 180 660 XL: > 165
Minimum Absorption – In different soil types		
Loess soil [g Water/g STOCKOSORB®]	660 Powder: > 110 660 Micro: > 120	660 Medium: > 120 660 XL: > 115
Sandy soil [g Water/g STOCKOSORB®]	660 Powder: > 105 660 Micro: > 110	660 Medium: > 110 660 XL: > 105
Toxicology / Ecology	Nontoxic for plants and soil organisms and does not pollute ground water – Tests conducted according to OECD guidelines	
Residual Monomers Acrylic acid [mg/kg]	< 600	

Packaging

STOCKOSORB® 660 is available in the following packaging:

Product	Origin / Weight / Packaging
Powder	US: 40 x 25 kg bag = 1000 kg pallet
Micro, Medium	US: 40 x 25 kg bag = 1000 kg pallet DE: 50 x 20 kg bag = 1000 kg pallet
XL	US: 30 x 20 kg bag = 600 kg pallet
Micro	US: 800 kg big bag
Medium	US: 700 kg big bag

Listing status

STOCKOSORB® 660 is listed in the following chemical inventories:

EINCES, TSCA, AICS, DSL, IECSC, ENCS, KECI, NZIoC, PICCS, TCSI, Vietman.

Storage conditions

It is recommended to store STOCKOSORB® 660 in closed bags, at room temperature and under dry and sun protected conditions.

Hazardous goods classification

Information concerning

- classification and labelling in conformity with the regulations for the transport of dangerous goods
- protective measures for storage and handling
- measures in case of accidents and fire
- ecological and toxicity effects

is given in our material safety data sheets.

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