

## 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 Medium
	STOCKOSORB® 660 Micro	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 Medium: 1.0 – 2.5 660 Micro: 0.2 – 1.0      660 XL: 2.0 – 4.0	
Bulk density [g/l]	660 Powder: 600 ± 100      660 Medium: 550 ± 100 660 Micro: 600 ± 100      660 XL: 450 ± 100	
Solubility	Insoluble in water – swell to gel upon contact with aqueous solutions	
pH-value (1g/l H <sub>2</sub> O)	7.0 – 8.5	

**Minimum Absorption – Under free swelling conditions**

1) Deionized water [ml/g]	660 Powder: > 240	660 Medium: > 260
	660 Micro: > 260	660 XL: > 250
2) Tap-Water [ml/g] (1.3 mmol/l CaCO <sub>3</sub> )	660 Powder: > 160	660 Medium: > 180
	660 Micro: > 180	660 XL: > 165

**Minimum Absorption – In different soil types**

Loess soil [g Water/g STOCKOSORB®]	660 Powder: > 110	660 Medium: > 120
	660 Micro: > 120	660 XL: > 115
Sandy soil [g Water/g STOCKOSORB®]	660 Powder: > 105      660 Medium: > 110 660 Micro: > 110      660 XL: > 105	
<b>Toxicology / Ecology</b>	Nontoxic for plants and soil organisms and does not pollute ground water – Tests conducted according to OECD guidelines	
<b>Residual Monomers</b> 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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