

Product Specification

STOCKOSORB® 660

**For Water & Soil Management Improvement –
in Agriculture, Horticulture, Silviculture, Landscaping & Land Reclamation**
General Information

STOCKOSORB® increases the plant available water 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® stores water 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® 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.

Water and nutrients for improved plant growth

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 (1g/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	660 Powder: > 110 660 Micro: > 120	660 Medium: > 120 660 XL: > 115
Sandy soil	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 according to OECD-Test	
Residual Monomers Acrylic acid [mg/kg]	< 600	

Packaging

STOCKOSORB® 660 is available in the following packaging:

	Weight
Powder	25 kg bag (US) / 55 lbs bag, 1000 kg / 2200 lbs pallet / (40 x 25 kg / 55 lbs)
Micro, Medium	25 kg bag (US) / 55 lbs bag, 1000 kg / 2200 lbs pallet / (40 x 25 kg / 55 lbs) and 20 kg bag (DE) / 44 lbs bag, 1000 kg / 2200 lbs pallet / (50 x 20 kg / 44 lbs)
Micro	800 kg big bag / 1764 lbs. big bag
XL	20 kg bag (US) / 44 lbs bag, 600 kg / 1320 lbs pallet / (30 x 20 kg / 44 lbs)

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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