

STOCKOSORB® 660

Powder - Micro - Medium - XL



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 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 ₂ 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 ₃)	660 Powder: > 160 660 Medium: > 180 660 Micro: > 180 660 XL: > 165

Minimum Absorption - In different soil types

Loess soil	660 Powder: > 110 660 Medium: > 120 660 Micro: > 120 660 XL: > 115
Sandy soil	660 Powder: > 105 660 Medium: > 110 660 Micro: > 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)

Storage Stability

STOCKOSORB® 660 can be stored in closed bags at room temperature under dry & sun protected conditions.
Please contact us for any further information.

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