

## 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<br>STOCKOSORB® 660 Micro   | STOCKOSORB® 660 Medium<br>STOCKOSORB® 660 XL |
| Basis  | Crosslinked polyacrylic acid homopolymer, partially potassium neutralised   |  |
| Appearance   | Free flowing white granules   |  |
| Particle Size<br>Distribution [mm]                     | 660 Powder: < 0.2<br>660 Micro: 0.2 – 1.0   | 660 Medium: 1.0 – 2.5<br>660 XL: 2.0 –4.0    |
| Bulk density<br>[g/l]                                  | 660 Powder: 600 ± 100<br>660 Micro: 600 ± 100   | 660 Medium: 550 ± 100<br>660 XL: 450 ± 100   |
| Solubility   | Insoluble in water – swell to gel upon contact with aqueous solutions   |  |
| pH-value (1 g/l H <sub>2</sub> O)                      | 7.0 – 8.5   |  |
| Minimum Absorption – Under free swelling conditions    |   |  |
| 1) Deionized water<br>[ml/g]                           | 660 Powder: > 240<br>660 Micro: > 260   | 660 Medium:> 260<br>660 XL: > 250            |
| 2) Tap-Water [ml/g]<br>(1.3 mmol/l CaCO <sub>3</sub> ) | 660 Powder: > 160<br>660 Micro: > 180   | 660 Medium: > 180<br>660 XL: > 165           |
| Minimum Absorption – In different soil types           |   |  |
| Loess soil<br>[g Water/g STOCKOSORB®]                  | 660 Powder: > 110<br>660 Micro: > 120   | 660 Medium:> 120<br>660 XL: > 115            |
| Sandy soil<br>[g Water/g STOCKOSORB®]                  | 660 Powder: > 105<br>660 Micro: > 110   | 660 Medium: > 110<br>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<br>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<br>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.

01/2020

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**Evonik Nutrition & Care GmbH**  
Goldschmidtstraße 100  
45127 Essen, Germany  
Phone Europe +49 201 173 2665  
Phone Asia +86 21 61191 125  
Phone Americas +1 804 727 0700  
[interface-performance@evonik.com](mailto:interface-performance@evonik.com)  
[www.evonik.com/Interface-performance](http://www.evonik.com/Interface-performance)

