

SIPERNAT® D 17

The superior anticaking aid for hygroscopic powders



Anticaking is crucial in powder processing

Many powders or granulates in a broad variety of applications tend to cake during storage and transport. Customers face problems in handling and dosing these caked products or - even worse - the products fail completely in the final application. Addition of an anticaking aid is common to overcome this challenge. However especially for hygroscopic powder usual anticaking aids often are not efficient enough or the required addition level is much too high.

To address this issue Evonik offers a superior solution:

SIPERNAT® D 17 - the hydrophobic anticaking aid.

Due to its hydrophobic nature SIPERNAT® D 17 repels traces of humidity in the powder and prevents caking much more efficient than a regular hydrophilic anticaking agent. With very low addition levels of SIPERNAT® D 17 you can improve even highly hygroscopic powders and keep them flowing after long term storage or transport.

BENEFITS OF SIPERNAT® D 17

- Satisfy your customer with a constant quality of product that does not cake
- Improve powder handling and reduce downtimes
- Reduce addition level of anticaking aid and save costs
- Ensure easy and reliable dosing of your valuable powder







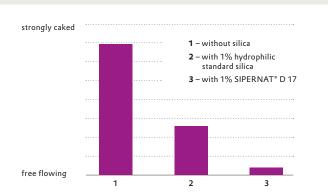
Examples for the efficiency of SIPERNAT® D 17

The two examples below illustrate the superior efficiency of SIPERNAT® D 17 in different applications.

The same principle can be applied to numerous other powder applications.

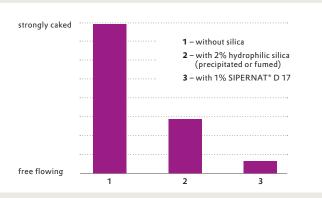
Caking tendency of fire extinguishing powder

In the following test the storage stability of a fire extinguishing powder was tested in a wet/dry cycle. Then the intensity of the caking was evaluated. The results show that the addition of only 1% of the hydrophobic silica grade SIPERNAT® D 17 leads to a significantly lower caking tendency.



Caking tendency of spray dried hygroscopic polymer

SIPERNAT® D 17 is also ideal to be added as anticaking aid directly into a spray drying process. The diagram on the right side shows that SIPERNAT® D 17 is much more efficient at lower addition levels than hydrophilic precipitated or even fumed silica grades.



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 NY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANT-ABILITY 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 hanges to the information and/or recommendations at any time, without prior or subsequent notice.

SIPERNAT® is a registered trademark of Evonik Industries or its subsidiaries.

Evonik Operations GmbH Silica business line Rodenbacher Chaussee 4 63457 Hanau Germany

Phone +49 6181 59-12532 Fax +49 6181 59-712532 ask-si@evonik.com www.silica-specialist.com

The Silica specialists at Evonik - Inside to get it right.



-S-32-EN-02-2021/12-HELF