

**SURECEL™ 466 ER Processing Aid****Description**

SURECEL™ 466 ER is an ultra-high molecular weight polymer, used as a Processing Aid in foamed PVC formulations. Due to its excellent resistance to void and a very high gas containment limit, SURECEL™ 466 ER Processing Aid provides the highest efficiency in terms of foaming process. The use of this processing aid during foaming process helps to reach excellent performance and very high quality of end-use products.

**Applications**

SURECEL™ 466 ER Processing Aid is recommended in foamed PVC formulations designed for free foam sheets and Celuka foamed sheets, with higher thickness (>19mm) and for foamed profiles (Celuka extrusion, co-extrusion for foamed core profiles).

**Regional Product availability**

- Europe Middle East Africa India

**Typical properties**

SURECEL™ 466 ER Processing Aid is a free-flowing powder.

|   |              |
|---|--------------|
| Physical appearance                       | White powder |
| Bulk density aerated (g/cm <sup>3</sup> ) | 0.35-0.45    |
| Volatiles (% max)                         | 1.0          |

**Key attributes**

- Promote fusion and increase gelation level
- Improve melt homogeneity
- Increase melt strength
- Increase melt elongation
- Increase melt elasticity

These key attributes result in

- High melt expansion
- Low density PVC foam
- Reduced melt fracture and improved surface finish (smoother surface)

**Rheology and Processing**

The use of ultra-high molecular weight processing aid has a dramatic effect on the melt rheology of PVC formulations. PVC foam formulations display very high level of elasticity and are remarkably temperature and shear rate dependent. The formulation and die design will have a significant effect on the results obtained.

**Product Packaging**

The standard package is either a unitized pallet of 20-25 kg bags or 500-900 kg super sacks/big bags/FIBC bags.

Please consult a Dow representative for specific package availability for this product.



## Technical Data Sheet

### Quality management system

The Dow Chemical Company (Dow) and its subsidiaries have implemented a comprehensive quality management system pursuant to Good Manufacturing Practices (GMP) and various quality management standards including ISO 9001. An overview of **The Dow Quality Management System Manual** can be obtained at the following Internet web site – <http://www.dow.com/en-us/about-dow/our-company/beliefs-and-culture/quality-culture>. As part of that system, the Dow Plastics Additives business maintain ISO 9001 registration for most of our manufacturing plants. A copy of these certificates available upon request.

### Storage and handling precautions

Store unopened in original packaging at ambient temperature. If material is opened, it should not be left exposed and should be used within one month. When stored correctly in the original packaging, the shelf life is 3 years from date of manufacture.

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage. Contact Dow for copies of the SDS and for more information on this product. Information contained in a TDS document cannot substitute a SDS.

### Disposal considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

### Medical Applications Restrictions

Dow prohibits sale into certain medical applications. Please check with Dow if you believe your application could be in violation of this policy.

### Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. The customer is solely responsible for determining the suitability of the Dow product for the uses contemplated by customer. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow and available online at [www.dow.com](http://www.dow.com).

### Regulatory Information

If your application includes a sensitive application such as food contact or drinking water requirements or if you need other regulatory information, please contact your local Dow representative.

#### Contact information:

If you should have any questions regarding this notice, please contact your local Dow Representative or [www.dow.com/contact](http://www.dow.com/contact)

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