

Technical Information

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® = Registered trademark of BASF SE

Size CE

Water-soluble size for staple-fiber yarns of cellulosic fibers, polyester/cellulosic blends, wool and polyester/wool blends and for viscose filament and acetate

Nature	Polyacrylate in water
Physical form	Opaque to turbid, low-viscosity, yellowish liquid
Shelf life	Size CE can be kept in the original sealed containers at temperatures between 5 and 40 °C for up to 12 months. Partly used containers should be kept tightly closed. Further information on storage is provided in the current Safety Data Sheet.
Special note	The product must be stirred before use.
Note on safe handling, disposal and ecology	Before using the product for the first time, please note the information given in the current Safety Data Sheet.

Properties

Product specification	The data below are approximate. Tolerances are given in the product specification.
Active content	25 % ± 1
Concentration (%)	= refractometer value (°Brix) x 1.05
pH (20 °C)	Approx. 7–8 (undiluted)
Density (20 °C)	Approx. 1.05 g/cm ³
Viscosity (23 °C)	Approx. 30–300 mPa·s (product as supplied) Approx. 20–50 mPa·s (15 % solution) (Brookfield RVT, spindle 3, 100 rpm)
Solubility	Miscible with water in all proportions
Ecology	Size CE is readily bioeliminable from water (Tegewa test, based on OECD 302 B) and suitable for recycling. Binding data, including the COD value, are given in the current Safety Data Sheet.
Compatibility	Solutions of Size CE are compatible with water-hardening substances. Size CE forms poorly soluble precipitates in the presence of acids, poly-valent metal ions such as copper, aluminum, zinc and iron ions, and cationic substances. Size CE can be mixed with the usual starch products, salt-free carboxymethyl starches and salt-free CMC sizes. It is not compatible with Size CA, Size CB or Size CO.
Climatic stability	Size CE is insensitive to moisture and can therefore be applied without problem under the usual climatic conditions for staple fibers. The product property data merely provide an indication of how the product is to be used. They do not constitute the agreed quality of the product, nor are they the object of regular quality control tests.

Application

On drying, Size CE forms a tough, flexible film that has excellent adhesion to cellulosic fibers, polyester/cellulosic-fiber blends, wool, polyester/wool blends, viscose filament and acetate. It can be readily desized.

The high peeling resistance of the product leads to an excellent sizing effect and weaving performance.

Warps that have been correctly sized with Size CE – preferably mixed with starch in the case of staple-fiber yarns – give optimum results on all types of looms suitable for the above yarn types.

Recycling

Size CE is suitable for size recovery and reuse. It has the necessary good washing-out properties and can be concentrated by ultrafiltration to the usual concentration required for sizing.

Desizing

Size CE can be readily washed out. The dissolving rate can be further increased by raising the temperature of the wash liquor, vigorously agitating the liquor and fabric during washing, adding a small amount of alkali or ammonia, and using a detergent.

When Size CE is applied together with starch, the desizing conditions are determined by the particular starch products employed.

Safety

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with textile dealers' requirements rests with the textile processor.

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