



World innovation: Upright polyester fibre fleece insulation for TiSUN tanks

From June, TiSUN will supply its tanks with a new type of patented fleece insulation and offer its customers a free product development

The new type of patented polyester fibre fleece insulation differs from conventional types of insulation because its fibres run in an "upright" direction relative to the tank wall. Because it is made of multiple tapered segments, the fleece insulation fits the tank wall and sleeves perfectly, prevents flue leakage and guarantees dimensional stability. For the Pro-Clean® solar stratified tank with spherical exchanger and the PC-2WR, the Pro-Heat solar stratified tank and the PSN backup tank, TiSUN is to use "heavy" ISOVS fleece insulation. The "light" version of the fleece insulation, ISOVL, will be used for the FS service water tanks and the BE-SSP solar hot water tanks from 650 litres upwards.

The new polyester fibre fleece insulation is classified in fire resistance class B1 according to DIN 4102 and has low flammability. The ISOVS heavy fleece insulation has an insulation value of 0.035 W/mK, while the light ISOVL fleece insulation has an insulation value of 0.040 W/mK. In an extensive TiSUN test series, the energy loss of the new TiSUN polyester fibre fleece insulation was at least 1 kWh less per 24 hours than other forms of insulation. "The melamine resin insulation used up to now is a top-quality product that was hard to surpass, but the newly developed fleece insulation is even better," states Head of Development Arnold Teufel.

As well as its dimensional stability, energy-saving properties and high functionality, the polyester fibre fleece insulation has other superb benefits. The fleece insulation contains no chemicals, is toxicologically harmless and free of CFCs and HCFCs. Teufel is delighted about the market launch: "The fleece features skin-friendly, allergy-friendly, breathable and therefore recyclable and environmentally friendly properties."

The ISOVL and ISOVS have another outstanding feature: they do not absorb water and are hygroscopically harmless and resistant to mould and pest infestation. The new fleece insulation also provides good sound insulation.

TiSUN will supply its customers with this new fleece insulation at no extra cost compared with the high-quality melamine resin insulation used up to now.

New TiSUN simulation software available

From June, comprehensive simulations with TiSUN solar systems can be run using the specially developed Polysun 4 software. Unlike other programs available on the market, the new simulation software is highly customisable with 23 TiSUN standard layouts and 86 individual components (solar collectors and tank systems) to choose from. The software offers the maximum possible flexibility for designing TiSUN solar systems. The parameters with practical relevance can be changed for all components. Highly precise output prediction is guaranteed with Polysun 4. You can test the DEMO version at the TiSUN trade fair stand No. 510/B.1 at the Intersolar trade fair from May 27-29 in Munich.

TiSUN.com reloaded

TiSUN's new website goes online on May 20 with lots of new features. A comprehensive partner network is available for TiSUN customers, TiSUN presents its products in detail and technical datasheets can be downloaded. There is a dedicated press area featuring the latest press images and press releases. The new website offers end customers detailed information on solar heating and reference properties, plus the Polysun 4 simulation software for evaluation and visualisation.

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Images:

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| ISOVS__PSN_300_4c.jpg | The innovation: Upright polyester fibre fleece insulation for TiSUN solar tanks |
| ISOVS_PC_300_4c.jpg | Patented, upright polyester fibre fleece insulation for stratified storage tank Pro-Clean® with stratified spherical exchanger |
| ISOVS_detail_300_4c.jpg | Detailed view at the patented, upright polyester fibre fleece insulation for TiSUN |
| ISOVS_detail2_300_4c.jpg | Detailed view at the patented, upright polyester fibre fleece insulation for TiSUN |

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