



ZOTEK® F FOAMS MEET THE STANDARDS FOR EXCEPTIONALLY LOW OUT-GASSING

Following the stringent testing protocols for out-gassing requirements favoured by both NASA and the semiconductor industry, Zotefoams Plc, the world's leading manufacturer of cross-linked block foams, has engineered its ZOTEK® F high-performance foams to be exceptionally pure. German-based M+W Zander Products GmbH recently completed a laboratory test that measures the out-gassing of volatile organic compounds (VOCs) and Ammonia found that the ZOTEK® F foams were categorised in the lowest risk category and permitted to use 50% surface coverage or above in clean-room environments.

ZOTEK® F foams are manufactured from ultra-pure Kynar® PVDF polymer in a unique process that uses only inert nitrogen gas to expand the polymer sheet. Kynar® PVDF resin, which is manufactured by Arkema, Inc., are polymer resins that are recognised by the semiconductor, biotech and medical industries as having very low extractables that migrate from the resin matrix. In addition to purity, these resins are also known for their excellent flammability properties and resistance to chemicals and ultraviolet light. Specifically, ZOTEK® F30 and ZOTEK® F40 HT foams have been manufactured from Kynar® polymer resins that have been approved by the Food & Drug Administration and United States Pharmacopeia.

Zotefoams' unique manufacturing method is recognised worldwide as the purest foam-manufacturing process employed today. Zotefoams extrudes pure PVDF resin into a plastic sheet that is inserted into an autoclave capable of 10,000 psi and 480°F before the material is impregnated with inert nitrogen gas and subsequently expanded into foam. Zotefoams foam materials are used in applications that require extremely high levels of purity, such as diabetic foot orthotics, medical cervical collars and hardware-equipment packaging for the International Space Station and Semiconductor Industry.

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