



ZETA FREEZECONTAINER

ZETA's product line FreezeContainer is the answer for bridging time and distance in the transport and processing of temperature critical vaccines and other biopharmaceutical products.

With the fully GMP compliant FreezeContainers, ZETA provides a high quality system for the safe transport and storage of pharmaceutical products. Excellent robustness and a working temperature range from -80° to $+150^{\circ}\text{C}$ ensures their broad applicability.

Easy to handle

ZETA FreezeContainers are fitted with standard Tri Clamps. This not only allows the containers to be clamped to existing pieces of processing equipment via sterile connectors, but it gives excellent access for operation, cleaning and inspection. Each container is supplied with a lid, clamp and a polymeric gasket.

What FreezeContainers can be used for

FreezeContainers are designed for production and laboratory work, as well as for safe transport of pharmaceutical substances (e.g. vaccines or mAb's). They can be used with powders as well as liquids and are available from stock in a wide range of sizes. Containers up to 50 ml are often used for stability testing, to prove and document safe storage of the product to the authorities. Larger containers offer the possibility of a reliable bulk transport (e.g. from a bulk producer to a CMO fill and finish partners).



20 ml FreezeContainer



5000 ml FreezeContainer

Best in quality

The product family is made to the highest product standards from stainless steel and feature an electro-polished surface. Due to the surface preparation and the avoidance of welding seams in containers up to 50 ml, the interaction of product with stainless steel can be minimized and product quality remains stable.

GMP compliance

ZETA Freeze Systems provide complete GMP compliant documentation for both, material certificates and complete welding procedures. ZETA documentation management ensures perfect tracking from product back to material heat records.

Temperature profile for freezing

The verified ZETA Temperature Profile Calculation System allows to simulate the temperature profile at every point in the product bulk. Therefore the freezing process can be ideally estimated in advance during process development phase.

Benefit from our expert support

ZETA offers full support and consulting for planning and conducting freeze and thaw experiments together with the customer in order to define critical process parameters. An experienced team of experts in biotechnology and bioprocess engineering provide guidance and support from the design of experiment, through experiment implementation, to laboratory analysis.

Active & Passive FreezeContainer

SIZE	MODE OF FREEZING	INSIDE DIAMETER	TOTAL HEIGHT INCL. COVER	WORKING VOLUME	WEIGHT	WORKING PRESSURE	WORKING TEMPERATURE	CONNECTION
10 ml (A102511)	passive	Ø22 mm	69.4 mm	10 ml	1.1 kg	-1/+4 bar	-80/+150°C	TC Ø50.5 mm
20 ml (A110508)	passive	Ø35 mm	69.4 mm	20 ml	1 kg	-1/+4 bar	-80/+150°C	TC Ø50.5 mm
50 ml (A110247)	passive	Ø47,5 mm	69.4 mm	50 ml	1.2 kg	-1/+4 bar	-80/+150°C	TC Ø64 mm
100 ml (A110248)	passive	Ø47,5 mm	94.4 mm	100 ml	1.5 kg	-1/+4 bar	-80/+150°C	TC Ø64 mm
500 ml (A110016)	passive	Ø96,6 mm	185.1 mm	500 ml	3.6 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
500 ml (A110015)	passive	Ø96,6 mm	235.1 mm	500 ml	3.8 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
1000 ml (A110018)	passive	Ø96,6 mm	250.1 mm	1000 ml	4 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
1000 ml (A110017)	passive	Ø96,6 mm	300.1 mm	1000 ml	4.2 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
5000 ml 4" (A110014)	passive	Ø180 mm	373.6 mm	5000 ml	4 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
5000 ml 2" (A102509)	passive	Ø180 mm	305.6 mm	5000 ml	2.8 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
5000 ml 4" (A102506)	passive	Ø180 mm	423.6 mm	5000 ml	4.2 kg	-1/+4 bar	-80/+150°C	TC Ø119 mm
10 – 300 l	active	customised	customised	customised	customised	customised	customised	customised