
High-pressure folding container for field research

What is a pressurised container?

A pressurised container is a versatile, sealed container or vessel that can be used in development laboratories as well as in large production facilities. The pressure inside the container is higher than the ambient pressure, thereby making pressurised processes, such as sterilisation or transfer, safe.

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

Can self-folding polymeric containers be used in drug delivery applications?

Applications Although the field of self-folding is still in its infancy, the relevance of self-folding polymeric containers in drug delivery applications is evident on account of its capability of incorporating many advantageous attributes for drug delivery applications within a single fabrication approach ..

Why are foldable containers so controversial?

One main reason for this controversy is the high purchase cost of the foldable container. The current purchase cost of the developed foldable container is currently set to US\$20,000 but will be lowered to US\$10,000 in case of mass production, which is still significantly higher than the purchase price of US\$5,000 of a standard 40-foot container.

This paper presents the design of a new 5-tier stacking foldable container with convenient folding and unfolding process and that can be produced economically compared to ...

Collapsible solar Container hit the headlines at recent trade fairs with the latest generation of portable solar technology combining standard shipping containers and ...

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What Is a Folding Container Room? A folding container room is a pre-fabricated unit designed to fold out into a fully usable space and then collapse back for easy transport. ...

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This paper does some research on the mechanical property of multilayer container structure under high temperature and gives some suggestions on how to make fire protection ...

Research facilities, universities, and science-focused organizations across the country are increasingly turning to cargo shipping containers --also known as Sea Can containers --as a ...

We demonstrate self-folding of precisely patterned, optically transparent, all-polymeric containers and describe their utility in mammalian cell and microorganism encapsulation and culture. The ...

The mechanisms by which proteins fold and the nature of the rate-determining step in folding remain important questions in the folding field. One important aspect of folded ...

In this review, we focus on self-folding of all-polymeric containers. We discuss the mechanistic aspects of self-folding of polymeric containers driven by differential stresses or ...

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