
High-pressure type cooperation for folding containers in chemical plants

Why do chemical plants use GRP containers?

Our GRP containers in chemical plants meet all the requirements of the latest technology, operational safety and official regulations. They are impressive due to their low weight and their high mechanical and thermal resistance to hostile external and internal influences.

Can composite materials be used in high-pressure containment?

This paper provides a comprehensive analysis of the various hydrogen storage technologies, with a particular emphasis on the role of composite materials in high-pressure containment for the automotive sector, particularly Type IV tanks.

What is a GRP container used for?

Whether phosphoric acid, sulphuric acid, hydrochloric acid or other chemicals: GRP containers from Neßler meet the highest demands for use in the chemical industry. They are used in acid concentration plants, monochloro-acetic acid plants, environmental protection plants and electrolysis plants, among others.

What is high pressure chemistry?

High-pressure chemistry is an interdisciplinary science exploring reactions and phenomena occurring at pressures above 100 kPa. Under these extreme conditions, substances undergo remarkable transformations, from quantum state alterations to the emergence of exotic stoichiometries.

This paper provides a detailed review of hydrogen storage technologies, with a particular focus on Type IV tanks for automotive applications. These tanks, characterized by a ...

A novel foldable model is used for extending the constitutive relations of a cylindrical pressure vessel composed of the copper matrix cylinders reinforced with three ...

The principle behind high-pressure chemical synthesis is deceptively straightforward yet profoundly impactful. By applying external pressure, typically through large ...

High pressure leads to striking new chemistry. Many new compounds with atypical compositions and a plethora of novel chemical species can be stabilized by the formation of ...

In this feature article, we review the transformative impact of high pressure on the chemical and physical properties of functional materials, including perovskite materials, low ...

Different pressure situations, extreme temperature fluctuations and aggressive media. In the chemical industry, containers and tanks are exposed to extreme influences. Our GRP ...

By analyzing recent advancements and methodological approaches in high-pressure research, we provide insights into the mechanisms driving structural and property ...

Structural and mechanical properties at high pressure A core challenge in high-pressure chemistry is to understand how and why certain phases undergo phase transitions ...

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