

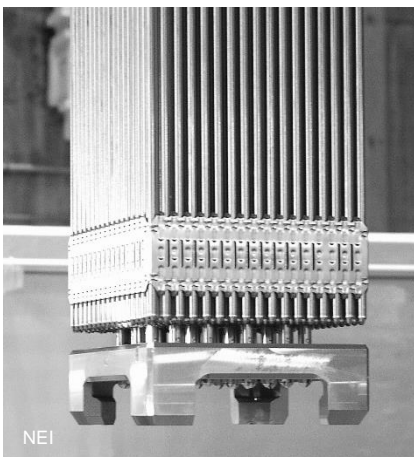


Nuclear Zirconium Alloy Market

Analyzing the Future for Zircaloy

UxC, LLC (UxC), a global leader in the nuclear fuel markets, is pleased to present the ninth edition of its *Nuclear Zirconium Alloy Market* report. Since 2008, UxC has been closely tracking and analyzing the nuclear zirconium alloy industry. Ever since our first edition, we have been convinced that there is an ongoing need for current information on this unique market. The latest 2023 edition of this special report updates all of the relevant information and analysis to reflect the shifts in the global zirconium minerals market, developments in the nuclear zirconium supply chain, and the most current nuclear reactor market situation.

This report offers UxC's latest research on the many different suppliers that operate in the nuclear-grade zirconium sponge, alloy, materials, and tubing markets. Using proprietary demand modeling, we identify the latest major trends in the nuclear-grade zirconium industry by analyzing the global and regional supply and demand balances for nuclear-grade zirconium alloy and tubing as well by reactor types.



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Nuclear-grade zirconium alloys and products are used in the fabrication of fuel assemblies for the vast majority of current and future nuclear reactors around the world. A renewed growth trend has emerged for nuclear power in light of the global energy transition, and thus the global supply chain of nuclear-grade zirconium – from zircon mineral sand through the cladding and components used in finished fuel assemblies – requires renewed analysis. Therefore, the primary objective of this report is to factually and analytically approach the current and expected future direction of the nuclear-grade zirconium market to help formulate clear conclusions about how nuclear fuel fabricators will obtain the zirconium needed to create their finished products.



Tube & Pipe Journal

What is Included in this Report?

The separate chapters are as follows:

General Zirconium Overview provides a detailed review of the zirconium minerals market, including discussion of the zirconium mineral occurrence, resource base, and industrial applications, along with the role of zirconium alloy production for the nuclear fuel industry. This discussion helps put the specific nuclear zirconium market analysis presented in subsequent chapters in perspective.

Manufacturing Processes for Nuclear Fuel Components covers the overall “zirconium cycle” to produce the

materials and components used in nuclear fuel assemblies.

Nuclear Zirconium Alloy Materials & Product Suppliers offers updated descriptions of each company involved in nuclear-grade zirconium materials and product supply. This includes all firms in the world involved in zirconium sponge and alloy production and processing through tubing manufacture.

Nuclear Fuel Fabricators & Zircaloy Tubing Supply provides a review of the nuclear fuel fabrication business and processes while indicating where fabricators acquire their zirconium fuel assembly components.

Nuclear Zirconium Supply & Demand Analysis offers UxC's proprietary data and analysis of the global supply and demand balance for nuclear fuel-related zirconium alloy products. In addition, this chapter includes regional breakdowns as well as supply and demand analysis based on the different global reactor fuel types.

Overall Conclusions & Market Analysis completes our nuclear-grade zirconium market analysis with final thoughts on recent and emerging market trends along with a discussion on current prices and expectations for future price developments.

UxC's 2023 *Nuclear Zirconium Alloy Market* report is available for purchase. For information, contact Jonathan Hinze at jonathan.hinze@uxc.com or +1-770-642-7745.

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