

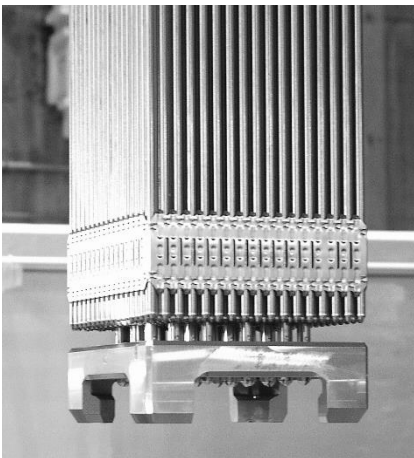


Nuclear Zirconium Alloy Market

Analyzing the Future for Zircaloy

UxC, LLC (UxC), a global leader in the nuclear fuel markets, is pleased to present the sixth edition in its report series *Nuclear Zirconium Alloy Market*. The initial report, issued in November 2008, was intended as a one-of-a-kind snapshot of the contemporary zirconium alloy industry. However, the highly favorable response to that report and subsequent editions convinced us that there is an ongoing need and desire for current information on this important topic. This latest edition, issued in May 2017, updates all of the relevant information to reflect the post-Fukushima nuclear reactor market situation and shifts in the global zirconium minerals markets.

This report offers UxC's latest analysis of the various sectors that make up the nuclear-grade zirconium sponge, alloy, materials, and tubing markets. Using proprietary demand modeling and other unique research results, we identify the latest major trends in this industry by analyzing the global and regional supply and demand balances for nuclear-grade zirconium alloy and tubing as well by reactor types.



Nuclear-grade zirconium alloys and products are used in the fabrication of fuel assemblies used in the vast majority of current and future nuclear reactor designs around the world. Despite the effects of Fukushima, many aspects of the international nuclear fuel supply chain continue to be of concern. The supply of nuclear-grade zirconium – from zircon mineral sand through the cladding and components used in finished fuel assemblies – has also not escaped this scrutiny. 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 producers of fuel assemblies for nuclear reactors will obtain necessary zirconium for their finished products.



Tube & Pipe Journal

What is Included in this Report?

Separate chapters are as follows:

General Zirconium Overview provides a broad summary of the zirconium mineral occurrence, resource base, and industrial applications, including the role of zirconium alloy production for the nuclear fuel industry. This helps put the specific nuclear zirconium market analysis in perspective.

Manufacturing Processes for Nuclear Fuel Cladding discusses the manufacturing processes and the overall "zirconium cycle" for production of

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 alloy materials and product supply. This includes all firms in the world involved in zirconium sponge and alloy production and processing through manufacture of tube-reduced extrusions (TRES), as well as separate 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 future market trends and expectations for price developments.

UxC's 2017 Nuclear Zirconium Alloy Market report is now available. For information or pricing contact Jonathan Hinze at jonathan.hinze@uxc.com or +1-603-425-1185.

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