

Advancing Small Modular Reactors and Generation IV Technology

High-performance nuclear power tubing – engineered to withstand extreme heat, pressure and corrosion.

As the demand for cleaner and more sustainable energy sources continues to grow, the emerging market for smaller modular reactors (SMRs) is gaining traction. These reactors offer a promising solution to the world's energy needs, but they also require specialized equipment and technology to operate effectively.



Wide range of coolants

At Alleima, we understand the unique challenges that the SMR market presents, particularly when it comes to cooling systems. That's why we are teaming up with both established players and new entrants to develop seamless tubing for a wide range of coolants – from water and lead to sodium, molten salt and helium.

Withstanding extreme conditions

Our seamless tubing is made from high-quality materials and designed to withstand extreme temperatures and pressures, making it the ideal choice for SMRs. Whatever the reactor design, generation or technology, our seamless tubing can help you achieve optimal performance and efficiency.

Optimized seamless tubing solutions

At Alleima, we are committed to providing our customers with the best possible solutions for their energy needs. Our team of experts is dedicated to working with you to find the perfect seamless tubing solution for your specific applications, ensuring that you can achieve your goals with confidence and ease.

Let's talk about your challenge

So, if you're looking for a reliable and high-quality seamless tubing solution for your SMR project, look no further than Alleima. Contact us today to learn more about our products and services, and discover how we can help you achieve your energy goals.

SMR applications	SMR benefits	Tube grades	Key tube benefits
<ul style="list-style-type: none">– On-grid sites– Off-grid sites– Marine	<ul style="list-style-type: none">– Compact design– Lower capital costs– High efficiency– Versatility away from large grids	<ul style="list-style-type: none">– Sanicro® 69 (NO6690/Alloy 690)– Sanicro® 30 (NO8800/Alloy 800)– Zirconium– Other materials	<ul style="list-style-type: none">– Dedicated local mills (US, EU)– Integrated production– Full traceability from melt to final tube– Tight tolerances– Ease of welding, bending– U-bent formats

Quality management, safety and sustainability

Alleima has quality management systems approved by internationally recognized organizations. Our dedicated nuclear power tubing mills are located in the USA (Scranton, PA) and Europe (Sandviken, Sweden). Alleima is approved for ASME Quality Systems Certificates as a Material Organization, approvals to ISO 9001:2008, ISO 17025:2005 and PED 97/23/EC. Also TÜV, JIS, DNV and Lloyd's Register. ISO 14001 and OHSAS 18001 approvals. We are committed to the UN Sustainable Development Goals (SDGs) and Science Based Targets initiative (SBTi).