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CASE STUDY.

Inconel® 625: Expertise at its Best

Overview

Freeze Cast partnered with clients involved in the World's largest unconventional gas field project (Jafurah project) to produce high-precision components for the gas industry. These projects required delivering over 2,000 pieces, using the advanced alloy **Inconel® 625 (ASTM 494 CW6MC)**, with rigorous quality standards to support cutting-edge energy production efforts.

The Challenge

The primary challenge was manufacturing and delivering a large volume of **2,000 components**, utilizing ASTM 494 CW6MC, a technically demanding material known for its strength and corrosion resistance. Ensuring dimensional accuracy and maintaining high-quality standards while meeting tight deadlines added further complexity to the process.

Our Solution

Freeze Cast implemented a meticulous sample approval process, leveraging 3D measurement tools in the United States to validate dimensional accuracy. Additionally, we offered in-house machining capabilities and conducted our own destructive testing, providing nearly assembly-ready components. By achieving a **99% on-time delivery rate**, we ensured reliability and precision.

The Result

Through our efforts, Freeze Cast successfully delivered components that met stringent quality and timing requirements. The combination of advanced material expertise, precise machining, and robust quality control ensured the success of the Jafurah project, solidifying our reputation as a reliable partner in high-stakes energy projects.

Key Figures of the Project:

- +2000 Components.
- Inconel® 625 (ASTM 494 CW6MC).
- Corrosion Resistent Material.
- Machining Capacity.
- Reliability and Precision.
- 99% on time delivery.

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