

Stainless Steel Investment Casting Component

This stainless steel part is made using investment casting for precise dimensions. It is ideal for machinery applications needing high strength and corrosion resistance.



Product Overview

Precision Investment Casting Technology

This stainless steel component is produced using the advanced silica sol investment casting process, a near-net-shape manufacturing method that minimizes the need for secondary machining. The process allows for the creation of complex geometries that are otherwise difficult to achieve through conventional casting or machining techniques. These parts offer superior dimensional accuracy and exceptional surface quality, making them ideal for high-performance applications requiring high-temperature resistance and reliability.

Technical Features

Process Steps

- Create fusible pattern
- Apply multi-layer refractory coating
- Dry and harden shell
- Melt and remove pattern
- Roast shell in furnace
- Pour molten metal into shell

Casting Method

Silica Sol Investment Casting

Key Advantages

High Dimensional Accuracy, Superior Surface Quality, Complex Geometry Capability, High-Temperature Resistance, Minimal Machining Required

Product Metrics

Performance Metrics

1 High

Surface Finish Quality

1 High

Dimensional Precision