Class C Grey Cast Iron Casting Material

Introduction

ASTM A126 Class C is one of the standard's three gray iron casting classes for pressure-retaining valve parts, pipe fittings, and flanges. Casting process options include Sand Casting, Shell Molding Casting and Lost Foam Casting, subject to the applicable specification and component requirements.

Manufacturing Process

Sand Casting
Shell Molding Casting
Lost Foam Casting

Equivalent Grades

N/A

Reference Standards

Standard	Standard Title	Edition	Specification	Identifier
ASTM A126	Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings	04	Class C	—

Physical Properties

N/A

Chemical Composition

Element	ASTM A126 Edition 04
P	<= 0.75 %
S	<= 0.15 %

Heat Treatment

NO HEAT TREATMENT

Mechanical Properties

Property	ASTM A126 Edition 04[1]
Tensile Strength	>= 41 ksi

Notes

ASTM A126 · Edition 04

[1] All properties in this column: one tension test per lot; A126 test bar unless §13.1 alternative

Welding Conditions

N/A

Applications

Typical casting applications include valve pressure-retaining parts, pipe fittings, and flanges.

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CASTING QUALITY

Casting Quality Industrial

As a professional manufacturer in China, We Casting Quality focus on Metal Parts OEM industry, and provide solutions and services in Metal Casting field as following:

Sand Casting

Investment Casting, Lost Wax process

Shell Casting

Lost Form Casting

Permanent Mold Casting

CNC Machining

CAD Design

Tools/Mold Design

Material Supplied

Cast Iron Castings (Grey Iron, Malleable Iron, Ductile Iron)

Carbon Steel and Alloy Steel Castings

Stainless Steel and Duplex Stainless Steel Castings

Aluminum Castings

Bronze and Brass Castings

Titanium and Cobalt Alloy Castings

What We Can Do

Design Ability

Our engineers will help you to improve the designs based on casting technology, then The simulation software will be processed to verify the casting pouring system. Pro/E, Solidworks, AutoCAD and ProCast are available in Casting Quality Industrial.

Saving Cost

Some manufacture processes may lead high cost. We will analyses the designs and advise the suitable methods to our customers. The best solution will be adopted.

Quality Control

From the raw material selecting to bulk production processing, all procedures will follow PPAP program if necessary. The certificates will be provided including chemistry, hardness, mechanical property or NDT testing.

Production Capacity

The max iron/steel castings can reach 30tons in weight, meanwhile the minus casting is around 1gram only.

We also have prototyping and 3D scanning ability for sample plan.

Logistic Service

The products will be delivered directly to customer’s workshop, which will save plenty of work for clients.

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