ISO 185/JL/HBW175 Grey Cast Iron Casting Material

Introduction

ISO 185/JL/HBW175 is a grey cast iron grade. Typical family applications include shaped covers, simple housings, counterweights and decorative and non-critical cast components.

Manufacturing Process

Sand Casting
Shell Molding Casting
Lost Foam Casting

Equivalent Materials

Standard	Material Grade
GB/T 9439	H175
SAE J431	H11
EN 1561	EN-GJL-HB175

Reference Standards

Standard	Standard Title	Edition	Specification	Identifier
ISO 185	Grey cast irons — Classification	2020	ISO 185/JL/HBW175	—

Physical Properties

N/A

Chemical Composition

No specified chemical composition limits in ISO 185

Heat Treatment

ISO 185–2020

Heat treatment is subject to agreement. Castings not ordered with heat treatment specified shall not be heat-treated unless agreed by the purchaser before shipment (10.4).. Only if ordered with heat treatment specified or subsequently agreed by purchaser before shipment; no temperature/cycle invented.; If castings are heat-treated, representative samples shall be heat-treated in the same way.

Mechanical Properties

Core Mechanical Properties

N/A

ISO 185–2020 · Heat treatment subject to purchaser agreement

N/A

Welding Conditions

N/A

Applications

For grey cast iron ISO 185 JL/HBW175, typical cast components in this material family include shaped covers, simple housings, counterweights and decorative and non-critical cast components. Typical settings include general machinery, building hardware and equipment assemblies. These family examples do not extend light-duty uses to highly loaded moving parts or pressure-retaining equipment.

CASTING QUALITY

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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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