



G-CoCr28 (EN 2.4778) Cobalt-base Alloys Casting Material

Introduction

G-CoCr28 is a cobalt-base heat-resistant casting alloy covered by EN 10295. Casting production and service suitability must follow the applicable specification and component requirements.

Manufacturing Process

Equivalent Grades

N/A

Reference Standards

Standard	Standard Title	Edition	Specification	Identifier
EN 10295	Heat resistant steel castings	2002	G-CoCr28	—

Physical Properties

N/A

Chemical Composition

Element	EN 10295 Edition 2002 · wt.% Cast analysis
C	0.05–0.25
Si	0.50–1.50
Mn	≤ 1.50
P	≤ 0.040
S	≤ 0.030
Cr	27.00–30.00
Ni	≤ 4.00
Fe	balance
Co	48.0–52.0
Mo	≤ 0.50
W	≤ 0.60 ^[1]
Nb	≤ 0.50



Notes

EN 10295 · Edition 2002

[1] W: Unless otherwise agreed: limit for element unspecified in; no intentional addition except for finishing the heat.

Heat Treatment

NO HEAT TREATMENT

Mechanical Properties

Property	EN 10295 Edition 2002 ^[1]
Yield Strength	≥ 235 MPa
Tensile Strength	≥ 490 MPa
Elongation	≥ 6 %

Notes

EN 10295 · Edition 2002

[1] All properties in this column: Room temperature

Welding Conditions

N/A

Applications

At the cobalt-base heat-resistant casting-family level, typical applications include custom cast components for elevated-temperature industrial service; selection must account for the specified service environment.

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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.

Contact with Us Immediately:

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