



## Duplex Stainless Steel CD3MCuN (1C, UNI J93373)

CD3MCuN (UNS J93373) is casting duplex stainless steel (austenitic/ferritic) in ASTM A890 only. The duplex stainless steel alloys offer a combination of enhanced mechanical properties and corrosion resistance.

CD3MCuN isn't defined in ASMT A995 or ASTM A351.

Casting Material Grades: ASTM A890 Grade 1C; ASTM A890 Type 25Cr-6Ni-Mo-Cu-N; ASTM A890 UNS J93373; ASTM A890 ACI CD3MCuN;

### Casting Methods in Casting Quality Industrial:

- n Sand Casting
- n Investment Casting (Lost Wax Casting, Precision Casting)

### Reference Casting Standard:

ASTM A890/890M Standard Specification for Castings, Iron-Chromium-Nickel-Molybdenum Corrosion-Resistant, Duplex (Austenitic/Ferritic) for General Application

[www.castingquality.com](http://www.castingquality.com)

### CD3MCuN (UNS J93373) Casting Chemical composition (nominal) %:

Carbon, max 0.030;

Manganese, max 1.20

Silicon, max 1.10

Phosphorus, max 0.030

Sulfur, max 0.030

Chromium 24.0-26.7

Nickel, 5.6-6.7

Molybdenum, 2.9-3.8

Copper, 1.40-1.90

Nitrogen, 0.22-0.33

$\%Cr+3.3\%Mo+16\%N \geq 40$

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### CD3MCuN (UNS J93373) Casting Mechanical Property:

Tensile Strength, min 100ksi [690Mpa];

Yield strength, min 65Ksi [450Mpa];

Elongation 25%

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### CD3MCuN (UNS J93373) Casting Heat treatment process:

Heat to 1900°F [1040°C] minimum, hold for sufficient time to heat casting uniformly to temperature, quench in water or rapid cool by other means.

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CD3MCuN (UNS J93373) Casting Hardness (not required):  $\leq$ HB300(HRC32)

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### CD3MCuN (UNS J93373) Casting Typical Application

- I SUBSEA CONTROL LINES
- I HEAT EXCHANGERS
- I WATER SYSTEMS





- I OFFSHORE PLATFORMS
- I FIRE-FIGHTING SYSTEMS

As a professional casting manufacture, Qingdao Casting Quality Industrial pay much attention to the quality and technology, our products are much more casting and forging parts. We are mainly do Sand Casting, Investment Casting (Lost Wax Casting or Precision Casting) and Die Casting .Today, its products are marketed globally through many countries.

## Our Services

Casting Quality focus on Metal Parts industry, we provide professional service in Metal Casting field.

1. Sand Casting
2. Investment Casting
3. Shell Casting
4. CNC Machining
5. CAD Design
6. Tools/Mold Design

Many buyers from all over the world purchase products from China. But do you know the quality of products in China? Maybe you only pay the surface and price, but the inner quality is lost .

Housing Casting Design in Solidworks

## What makes Casting Quality the best?

### Innovation

Our engineers are more than just designers...they're pioneers. Our team use CAD/CAM to do the simulation of casting parts .Through the advanced technology, we can know the weight and structure . We also visited so many factories to know their difference and improve our products every year.

### Quality

We're obsessed with quality. Casting Quality constantly strives to exceed our customers' expectations in durability and performance. In fact, we will control the whole process from the original material to the finished parts , include the technology .Uniquely-designed Quality Control System focuses on ensuring four product goals: 1) Eligible Chemistry , 2) Hardness 3) Property and 4) Affordable Pricing. The result is the best casting products value in the industry.

### Service

We're in Qingdao,China, It has convenient transportation of road and sea. Courteous service is part of who we are, and we do it better than anyone in the industry. With Casting Quality you can expect friendly, knowledgeable, and prompt customer service.

### Fulfillment





Shipping orders complete and on-time is of paramount importance to our customers. We will count the delivery date and result before accept your order. Casting Quality consistently ranks as one of the best in speed of delivery and fill rates.

***SERVICE IN QINGDAO CASTING QUALITY INDUSTRIAL***

- I SAND CASTING**
- I INVESTMENT CASTING**
- I SHELL CASTING**
- I PERMANENT MOLD CASTING**
- I CNC MACHINING**
- I CAD/CAM DESIGN**