



## Stainless Steel CF20 (UNS J92602)

CF20 is one type 19 Chromium 9 Nickel stainless steel grade which listed in ASTM A743 standard only. Casting UNS number is J92602. [WWW.CASTINGQUALITY.COM](http://WWW.CASTINGQUALITY.COM)

### Casting Methods in Casting Quality Industrial:

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

### Equivalent Stainless Steel Grade:

[WWW.CASTINGQUALITY.COM](http://WWW.CASTINGQUALITY.COM)

EN 10295 Gr. GX25CrNiSi18-9 (EN 1.4825)

### Reference Casting Standards and others

ASTM A743 Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application.



Stainless Steel Grade		CF20 Chemical Composition / Physical Properties % (max, except where range is given)								
Standard	Grade	Carbon	Manganese	Silicon	Sulfur	Phosphorus	Chromium	Nickel	Molybdenum	Copper
ASTM A743	CF20	0.20	1.50	2.00	0.040	0.040	18.0-21.0	8.0-11.0	-	-

### CF20 Heat treatment process: [WWW.CASTINGQUALITY.COM](http://WWW.CASTINGQUALITY.COM)

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

### CF20 Stainless Steel Mechanical Property [WWW.CASTINGQUALITY.COM](http://WWW.CASTINGQUALITY.COM)

Stainless Steel Grade			Tensile Strength min		Yield Strength, min		Elongation, min
Standard	Grade	UNS	Ksi	MPa	Ksi	MPa	%
ASTM A743	CF20	J92602	70	485	30	205	30



## CF20 Typical Casting Application

- SUBSEA CONTROL LINES
- HEAT EXCHANGERS
- WATER SYSTEMS
- OFFSHORE PLATFORMS
- FIRE-FIGHTING SYSTEMS

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:

1. **Sand Casting**
2. **Investment Casting, Lost Wax process**
3. **Shell Casting**
4. **Lost Form Casting**
5. **CNC Machining**
6. **CAD Design**
7. **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 analyse 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.