

# **Qingdao Casting Quality Industrial Co., Ltd**

# Alloy Steel LC3 (J31550)

LC3 is one Nickel steel casting grade which listed in ASTM A352/352M standard only. UNS code is J31550. It's a popular grade for low temperature application.

## **Casting Methods in Casting Quality Industrial:**

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

Similar Stainless Steel Grade:



N/A

## Reference Casting Standards:

ASTM A352 Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service.

Stainless Steel		LC3 Chemical Composition / Physical Properties %									
Grade		(max, except where range is given)									
Standard	Grade	Carbon	Silicon	Manga nese	Phosph orus	Sulfur	Nickel	Chromium	Molybdenum	Copper	Vanadi um
ASTM A352	LC3	0.15	0.60	0.50- 0.80	0.04	0.045	3.00- 4.00		- 37	-	-
Element, % (max, except where range is given).											

# ASTM A352 GR. LC3 Heat treatment process: www.castingquality.com

Ferrite castings shall be furnished in the normalized and tempered or liquid-quenched and tempered condition. Castings shall be tempered at a minimum of 1100°F [590°C], followed by cooling in air or liquid Castings shall be allowed to cool below the transformation, range directly after pouring and solidification before they are reheated for normalizing or liquid quenching.

# ASTM A352 GR. LC3 Stainless Steel Mechanical Property www.castingquality.com

Stainl	ess Steel G	Tensile Strength min		Yield Strength,		Elongati on, min	Reductio n of Area, min	Impact Requirement Charpy V-Notch Ft-lbf [J]			
Standard	Grade	UNS	Ksi	MPa	Ksi	MPa	%	%	Average	Single	Temperature °F [°C]
ASTM A352	LC3	J3155 0	70-95	785- 655	40	275	24	35	15[20]	12[16]	-150 [-101]



# Material Data Sheet

## Qingdao Casting Quality Industrial Co., Ltd

# ASTM A352 GR. LC3 Typical Casting Application

- Pump Castings.
- I Valve Castings.
- Water System castings.
- Low temperature condition.
- Heat Exchanger System.

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.

Sand Casting

**Investment Casting** 

Shell Casting

**CNC** Machining

CAD Design

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.



www.castingquality.com

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