



## Casting Material: Carbon Steel GS60

DIN 1681: GS-60 Cast Steel [www.castingquality.com](http://www.castingquality.com)

Casting grades: GS 60 [www.castingquality.com](http://www.castingquality.com)

Metal Type: Carbon Steels [www.castingquality.com](http://www.castingquality.com)

Casting Process: Sand Casting or Lost Wax Precision Investment Casting

Standard: DIN 1681, was replaced by EN 10293-2015;

Werkstoff nummer: 1.0558 [www.castingquality.com](http://www.castingquality.com)

Alternating Steel Grade: EN10293 GE300

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

GS-60 Heat treatment: Normalized or Anneal at 880-960 °C; Temper at 620-680 °C

*The right description is CAST STEEL DIN 1681 GS-60 or CAST STEEL DIN 1681-1.0558*



Steel Grade	Material Number	Carbon %	Manganese %	Silicon %	P %	S %	Cr %	Mo %	Ni %	V %	Cu %
GS-60	1.0558	-	-	-	-	-	-	-	-	-	-

The proportion of carbon by mass determined in the cast analysis, and also in the product analysis, at the points intended for fabrication welds shall not exceed 0.25% for cast steel grade GS-38 and GS-45. [www.castingquality.com](http://www.castingquality.com)

GS-60 Mechanical Property: [www.castingquality.com](http://www.castingquality.com)

Steel Grade	Material Number	Heat Treatment	Reduction of area after fracture %	Tensile Strength Rm Mpa	Upper Yield Rp0.2, Mpa	Elongation after fracture (L0=5 d0) % A	Impact Strength KV J ≤30MM	Impact Strength KV J >30MM
GS-60	1.0558		15%	600	300	15	27	20

1. The testing ambient room temperature. [www.castingquality.com](http://www.castingquality.com)
2. 1MPa=1 N/mm<sup>2</sup> [www.castingquality.com](http://www.castingquality.com)
3. "+N" means: Normalizing; +QT or +QT1 or +QT2 means: Quenching(air or liquid) and Tempering.
4. The Yield strength values at room temperature to 0.2% proof strength.



5. The value for Reduction are not relevant for acceptance.
6. Inspact determined from three individual values in each case.

GS-60 Magnetic Properties [www.castingquality.com](http://www.castingquality.com)

Steel Grade	Material number	Minimum magnetic 2.5kA/m	Minimum magnetic 5.0kA/m	Minimum magnetic 10.0kA/m
GS-60	1.0558	1.30	1.50	1.65

1. Magnetic properties by agreement at the inquiry and order only.

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

*EN 10293:2015, Steel Castings for general engineering uses is the newest revision for generally casting material.*

*Previous Editions:*

- *DIN 1681: 1924-04, 1929-07, 1942xx-03, 1967-06, 1985-06*
- *DIN 17182: 1985-06, 1992-05*
- *DIN 17205: 1992-04*
- *DIN EN 10293:2005*
- *DIN EN 10293 Corrigendum 1: 2008-09*
- *BS3100: 1991*

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**