

# Product Catalogue



Luoyue Precision Metal (Shanghai) Co., Ltd

**Best quality, best service**





## **Our Mission**

Luoyue Metal focusing on bringing low-cost, reliable, best quality metal material all of the world. Committed to continuous innovation, the production of high quality metal products

## **Core Business**

Our main products are includes aluminum, stainless steel, copper plate/bar/rod/pipe/coil and so on, our company is very good at designing and producing metal products for clients according to different users' operating requirements and installing conditions. We also offer one stop OEM/ODM services to customers in domestic and overseas markets. We want to help our customers reduce their cost and reduce transportation costs and generating their good quality product..

## **Our Aim**

Our aim to play a leading role in the growing metal supply sector, and we are doing our part to help shape this growing market for metal products , We have always been loyal attitude, integrity-based, more advanced service, the pursuit of more than the purpose of service. Strive to adapt to the different needs of the market, to provide customers with more perfect services, to achieve new breakthroughs

# **Catalogue:**

## **1. Aluminium material**

1.1 1xxx to 7xxx aluminium series

## **2. Stainless steel material**

2.1. Martensitic stainless-steel

2.2 Austenitic stainless steel

2.3 Ferritic stainless steel

2.4 Duplex stainless-steel

2.5 Structural stainless-steel

## **3. Copper alloy material**

3.1 Pure copper

3.2 Brass

3.3 Aluminium bronze

## **4. Special Steel material**

4.1 Free cutting steel

4.2 carbon steel

4.3 Die steel

4.4 Spring steel

## ► Aluminium material

JL-10-801605

欧标工业铝型材系列

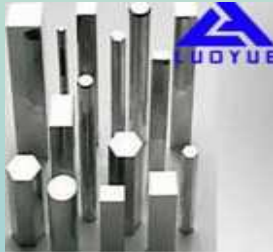
According to different alloying element content, aluminum plate can be divided into:

- 1xxx series for the industrial pure aluminum (Al),
- 2xxx series for the aluminum bronze alloy aluminum (Al, Cu),
- 3xxx series for the aluminum manganese alloy aluminum (Al - Mn),
- 4xxx series aluminum silicon alloy aluminum (Al - Si),
- 5xxx series aluminum magnesium alloy aluminum (Al, Mg),
- 6xxx series for the magnesium aluminum silicon alloy aluminum (AL, Mg, Si),
- 7xxx series aluminum zinc alloy aluminum [AL - zinc - Mg - (Cu)],
- 8xxx series for the aluminium with other elements.

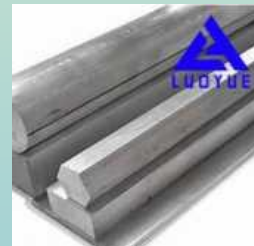
### -1xxx aluminium alloy series



Al 1050



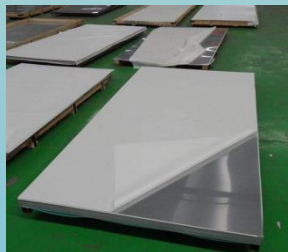
Al 1080



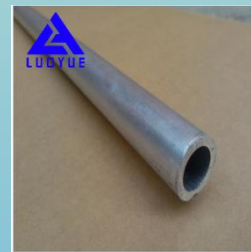
Al 1060



Al 1100



Al 1070



Al 1199

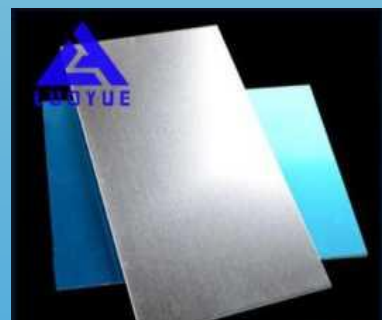
### -3xxx aluminium alloy series - Anti-rust aluminum plate



▲ 3003

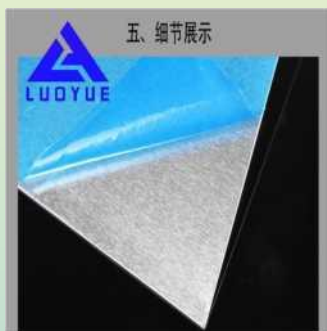


▲ 3004

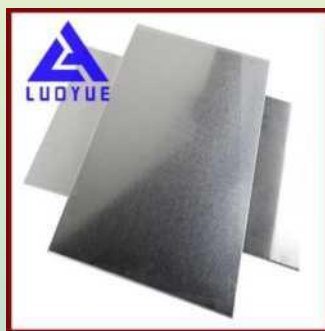


▲ 3A21

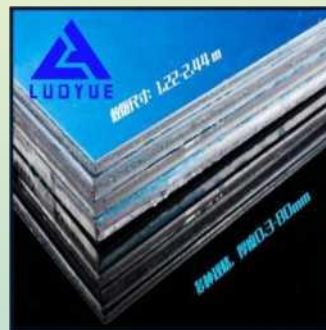
## 5xxx aluminium alloy series



▲ 5052



▲ 5083



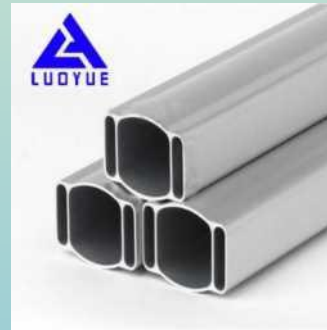
▲ 5154



▲ 5356



▲ 5A12



▲ 5A02

5xxx series aluminum plate belongs to the more commonly used alloy aluminum plate series, the main element is magnesium, magnesium content between 3-5%. Also known as aluminum magnesium alloy. It is characterized by low density, high tensile strength and high elongation. The weight of al-mg alloy is lower than other series in the same area. It is often used in aviation, such as aircraft fuel tanks. It is also widely used in conventional industry. The processing technology for continuous casting and rolling, belongs to the hot rolled aluminum plate series so can do oxidation processing. 5xxx series aluminum plate is one of the more mature aluminum plate series in China.

## -6xxx aluminium alloy series



▲ 6061



▲ 6063



▲ 6463



▲ 6070



▲ 6005

## 6xxx series aluminum function:

6xxx series aluminum plate: represents 6061. It mainly contains magnesium and silicon, so the advantages of 4xxx series and 5xxx series are concentrated. 6061 is a cold-treated aluminum forged product, suitable for applications with high corrosion resistance and oxidation requirements. Good usability, good interface features, easy coating, good work-ability. It can be used in low-pressure weapons and aircraft connectors

## Material test certificate

客户名称 (Customer)		物料名称 (Material Name)		规格 (Spec)	数量 (Qty)	日期 (Date)	检验员 (Inspector)	检验日期 (Inspection Date)
罗岳精密金属 (上海) 有限公司		6061-T6		Φ100x10	1000	2023-10-27	王明	2023-10-27

化学成分 (CHEMICAL COMPOSITION)										
元素 (Element)	C	Mn	P	S	Si	Mg	Fe	Zn	Al	其他 (Others)
实测值 (Actual)	0.015	0.010	0.005	0.002	0.05	1.2	0.03	0.005	99.8	符合 (Complies)

力学性能 (MECHANICAL PROPERTIES)										
项目 (Item)	标准值 (Standard)	实测值 (Actual)	项目 (Item)	标准值 (Standard)	实测值 (Actual)					
屈服强度 (Yield Strength)	275	285	抗拉强度 (Tensile Strength)	355	365					
伸长率 (Elongation)	12	13	断面收缩率 (Reduction of Area)	25	26					

明泰铝业产品质量证明书										
MING TAI AL. PRODUCT QUALITY CERTIFICATE										
客户名称 (Customer)	物料名称 (Material Name)	规格 (Spec)	数量 (Qty)	日期 (Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)
明泰铝业 (上海) 有限公司	6061-T6	Φ100x10	1000	2023-10-27	王明	2023-10-27	王明	2023-10-27	王明	2023-10-27

河南明泰产品质量证明书										
HENAN MING TAI PRODUCT QUALITY CERTIFICATE										
客户名称 (Customer)	物料名称 (Material Name)	规格 (Spec)	数量 (Qty)	日期 (Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)
明泰铝业 (河南) 有限公司	6061-T6	Φ100x10	1000	2023-10-27	王明	2023-10-27	王明	2023-10-27	王明	2023-10-27

罗岳精密金属 (上海) 有限公司										
Luoyue Precision Metal (Shanghai) Co., Ltd.										
客户名称 (Customer)	物料名称 (Material Name)	规格 (Spec)	数量 (Qty)	日期 (Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)	检验员 (Inspector)	检验日期 (Inspection Date)
罗岳精密金属 (上海) 有限公司	6061-T6	Φ100x10	1000	2023-10-27	王明	2023-10-27	王明	2023-10-27	王明	2023-10-27

## -Stainless steel

### 1. Martensitic stainless-steel



▲ SS410



▲ SS416



▲ SS440A/440C



▲ 17—4ph/15-5PH



▲ 2Cr13

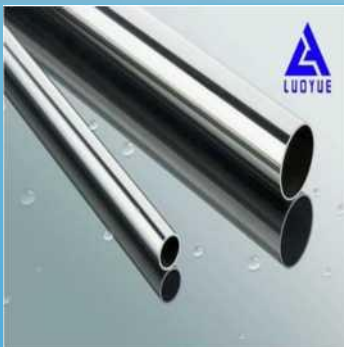


▲ 3Cr13

#### Martensitic stainless-steel function:

Martensitic stainless steel is through heat treatment can adjust its mechanical properties of stainless steel, colloquially speaking, is a kind of hardening stainless steel. Mainly used for steam turbine blade, tableware, surgical instruments. The corrosion resistance of steel comes from "chromium", which ranges from 11.5 to 18%. The higher the chromium content, the higher the carbon content.

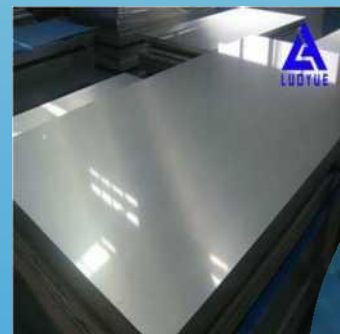
### 2. Austenitic stainless steel



▲ SS 304



▲ SS 316L



▲ 904L/ASTM NO8904



▲ 317LMN

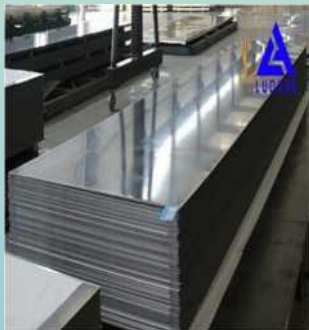


▲ 254SMO

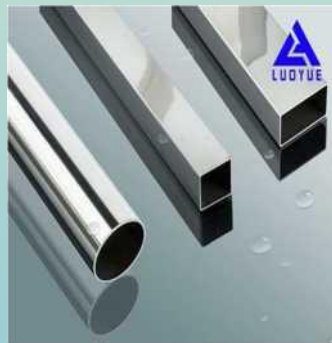


▲ 654SMO

### 3. Ferritic stainless steel



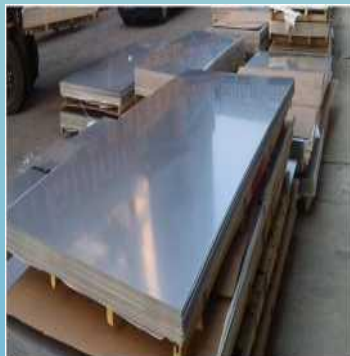
▲ AISI429



▲ AISI410S



AISI 444



AAISI 434



▲ AISI439

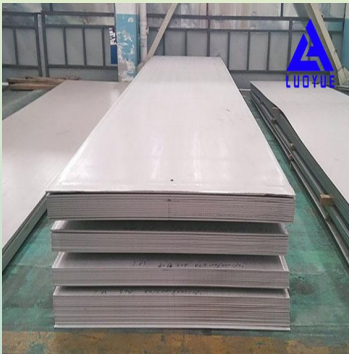


▲ AISI430ti

### Ferritic stainless-steel function

Ferrite stainless steels (400 series) contain 15%~30% chromium and have a body centered cubic crystal structure. This kind of steel generally does not contain nickel, and sometimes contains a small amount of Mo, Ti, Nb and other elements. This kind of steel has the characteristics of large thermal conductivity, small expansion coefficient, good oxidation resistance, excellent stress corrosion resistance and so on. It is mainly used for manufacturing parts that are resistant to atmospheric, water vapor, water, and oxidizing acid corrosion.

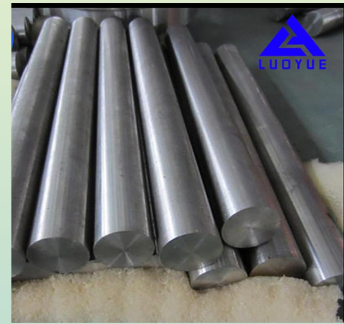
## 4. Duplex stainless-steel



▲ SAF2304



▲ UNSS31



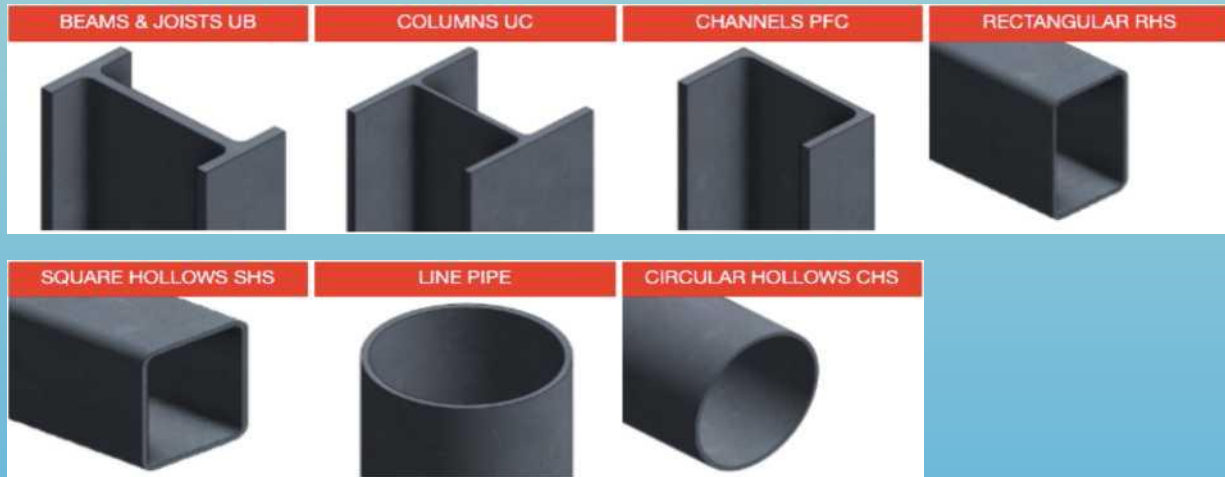
▲ UNSS32

### Duplex stainless-steel function

Ferrite stainless steels (400 series) contain 15%~30% chromium and have a body centered cubic crystal structure. This kind of steel generally does not contain nickel, and sometimes contains a small amount of Mo, Ti, Nb and other elements. This kind of steel has the characteristics of large thermal conductivity, small expansion coefficient, good oxidation resistance, excellent stress corrosion resistance and so on. It is mainly used for manufacturing parts that are resistant to atmospheric, water vapor, water, and

### Structural stainless-steel profile

#### STRUCTURAL



#### MERCHANT BAR







## Material test certificate sample

Material Certificate											
客户 (Customer)		日期 Date		订单 Order		料号 Part No.		图号 Drawing		牌号 Material	
2023-01-09		V0230001		V0230001		V0230001		V0230001		V0230001	
化学成分 (CHEMICAL COMPOSITION)											
牌号 Heat No.	C	Si	Mn	P	S	Cr	Ni	Mo	N		
1 210-0200	0.08	0.15	0.20	0.015	0.040	17.0	4.50	-	0.10		
2											
3											
4											
检查结果 (INSPECTION RESULTS)											
检测项目 Item	规格 Specification	检测结果 Test Result	符合标准 Conformance								
1 冲击 Charpy	10J	10J	合格 Pass								
2											
3											
4											
备注 (Remarks): 1. 执行标准: JIS G4303-1996 2. 热处理: 正火 3. 检验: 符合 4. 检验日期: 2023-01-09											

产品材质证明书											
Material Certificate											
客户 (Customer)		日期 Date		订单 Order		料号 Part No.		图号 Drawing		牌号 Material	
2023-01-09		V0230001		V0230001		V0230001		V0230001		V0230001	
化学成分 (CHEMICAL COMPOSITION)											
牌号 Heat No.	C	Si	Mn	P	S	Cr	Ni	Mo	N		
1 210-0200	0.08	0.15	0.20	0.015	0.040	17.0	4.50	-	0.10		
2											
3											
4											
检查结果 (INSPECTION RESULTS)											
检测项目 Item	规格 Specification	检测结果 Test Result	符合标准 Conformance								
1 冲击 Charpy	10J	10J	合格 Pass								
2											
3											
4											
备注 (Remarks): 1. 执行标准: GB/T 2280-2002 2. 热处理: 正火 3. 检验: 符合 4. 检验日期: 2023-01-09											

Luoyue Precision Metal (Shanghai) Co., Ltd											
产品材质证明书 Material Certificate											
客户 (Customer)		日期 Date		订单 Order		料号 Part No.		图号 Drawing		牌号 Material	
2023-01-09		V0230001		V0230001		V0230001		V0230001		V0230001	
化学成分 (CHEMICAL COMPOSITION)											
牌号 Heat No.	C	Si	Mn	P	S	Cr	Ni	Mo	N		
1 021-0200	0.085	0.15	0.20	0.015	0.040	18.0	4.50	-	0.10		
2											
3											
4											
检查结果 (INSPECTION RESULTS)											
检测项目 Item	规格 Specification	检测结果 Test Result	符合标准 Conformance								
1 冲击 Charpy	10J	10J	合格 Pass								
2											
3											
4											
备注 (Remarks): 1. 执行标准: GB/T 2280-2002 2. 热处理: 正火 3. 检验: 符合 4. 检验日期: 2023-01-09											



## Copper Alloy

### 1. Pure copper



▲ C1100/T2

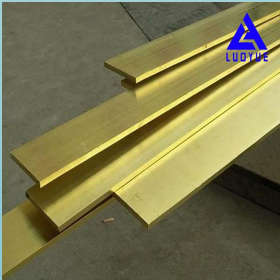


▲ C1020/Tu2

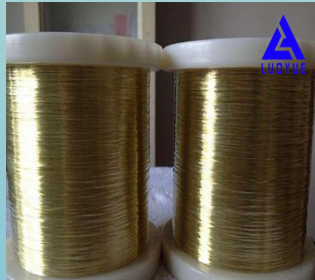


▲ C1300/TAg0.08

### 2. Brass



▲ c41300/c41100



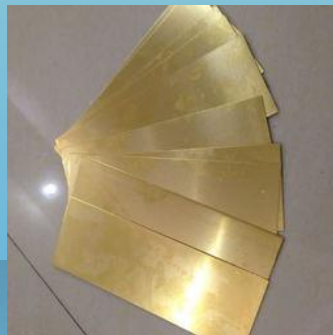
▲ C28000



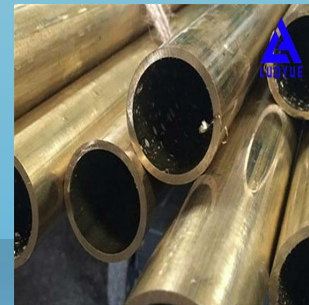
▲ C3604



▲ C24000/240/CuZn



▲ C34500/345/ CuZn36Pb3



▲ C36500/CZ123/C3



### 3. Aluminum bronze



▲ QAL7



▲ QAL9-4



▲ QAL10-4-4

### Special Steel

#### 1. Free cutting steel



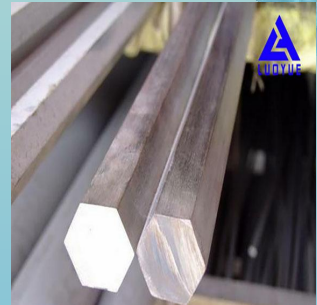
▲ Y40MN/ 44SMn28/ A40G



▲ Y15 /1115/ SUM32



▲ 1215/ Y13 / SUM23/ 1B



▲ 12L14

#### 2. Carbon steel



▲ AISI 1045/1020



▲ AISI1018



▲ AISI4130



▲ AISI4340



### 3. Die steel



▲ DC53

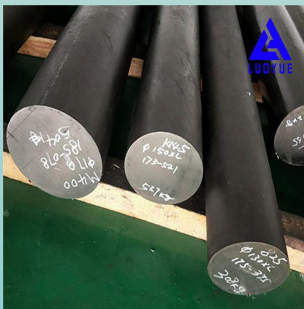


▲ S50C

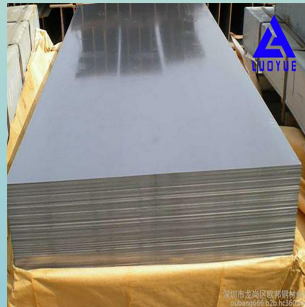


▲ P20

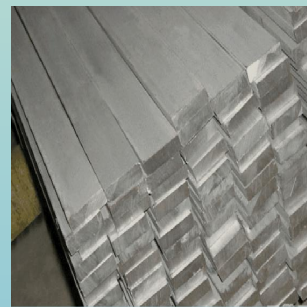
### 4. Spring steel



▲ 50CrV4



▲ 5160 (A689)



▲ AISI 1070

## Material Test Certificate

Material Certificate		客户名称		物料名称		规格		数量		日期	
电话 (TEL): 021-02279885 02279885 地址: 上海市浦东新区唐陆路501号		客户名称		物料名称		规格		数量		日期	
传真 (FAX): 021-02279883		地址: 上海市浦东新区唐陆路501号		物料名称		规格		数量		日期	
网络销售: www.lyapm.com		网址: www.lyapm.com		物料名称		规格		数量		日期	
<b>化学成分 (CHEMICAL COMPOSITION)</b>											
元素	名称	C	Si	Mn	P	S	Cr	V	其他	单位	范围
1	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
2	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
3	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
4	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
<b>检查结果 (INSPECTION RESULTS)</b>											
项目	名称	单位	检测结果	合格	不合格	备注					
1	化学成分	%	符合	是	否						
2	力学性能	MPa	符合	是	否						
3	尺寸精度	mm	符合	是	否						
4	表面质量	目视	符合	是	否						
备注: 1. 客户名称: 50CrV4 2. 物料名称: 50CrV4 3. 规格: 50CrV4 4. 数量: 50CrV4 5. 日期: 50CrV4 6. 地址: 50CrV4 7. 电话: 50CrV4 8. 传真: 50CrV4 9. 网络销售: 50CrV4 10. 网址: 50CrV4											

Material Certificate		客户名称		物料名称		规格		数量		日期	
电话 (TEL): 021-02279885 02279885 地址: 上海市浦东新区唐陆路501号		客户名称		物料名称		规格		数量		日期	
传真 (FAX): 021-02279883		地址: 上海市浦东新区唐陆路501号		物料名称		规格		数量		日期	
网络销售: www.lyapm.com		网址: www.lyapm.com		物料名称		规格		数量		日期	
<b>化学成分 (CHEMICAL COMPOSITION)</b>											
元素	名称	C	Si	Mn	P	S	Cr	V	其他	单位	范围
1	5160 (A689)	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
2	5160 (A689)	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
3	5160 (A689)	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
4	5160 (A689)	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
<b>检查结果 (INSPECTION RESULTS)</b>											
项目	名称	单位	检测结果	合格	不合格	备注					
1	化学成分	%	符合	是	否						
2	力学性能	MPa	符合	是	否						
3	尺寸精度	mm	符合	是	否						
4	表面质量	目视	符合	是	否						
备注: 1. 客户名称: 5160 (A689) 2. 物料名称: 5160 (A689) 3. 规格: 5160 (A689) 4. 数量: 5160 (A689) 5. 日期: 5160 (A689) 6. 地址: 5160 (A689) 7. 电话: 5160 (A689) 8. 传真: 5160 (A689) 9. 网络销售: 5160 (A689) 10. 网址: 5160 (A689)											

Material Certificate		客户名称		物料名称		规格		数量		日期	
电话 (TEL): 021-02279885 02279885 地址: 上海市浦东新区唐陆路501号		客户名称		物料名称		规格		数量		日期	
传真 (FAX): 021-02279883		地址: 上海市浦东新区唐陆路501号		物料名称		规格		数量		日期	
网络销售: www.lyapm.com		网址: www.lyapm.com		物料名称		规格		数量		日期	
<b>化学成分 (CHEMICAL COMPOSITION)</b>											
元素	名称	C	Si	Mn	P	S	Cr	V	其他	单位	范围
1	AISI 1070	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
2	AISI 1070	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
3	AISI 1070	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
4	AISI 1070	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
<b>检查结果 (INSPECTION RESULTS)</b>											
项目	名称	单位	检测结果	合格	不合格	备注					
1	化学成分	%	符合	是	否						
2	力学性能	MPa	符合	是	否						
3	尺寸精度	mm	符合	是	否						
4	表面质量	目视	符合	是	否						
备注: 1. 客户名称: AISI 1070 2. 物料名称: AISI 1070 3. 规格: AISI 1070 4. 数量: AISI 1070 5. 日期: AISI 1070 6. 地址: AISI 1070 7. 电话: AISI 1070 8. 传真: AISI 1070 9. 网络销售: AISI 1070 10. 网址: AISI 1070											

Material Certificate		客户名称		物料名称		规格		数量		日期	
电话 (TEL): 021-02279885 02279885 地址: 上海市浦东新区唐陆路501号		客户名称		物料名称		规格		数量		日期	
传真 (FAX): 021-02279883		地址: 上海市浦东新区唐陆路501号		物料名称		规格		数量		日期	
网络销售: www.lyapm.com		网址: www.lyapm.com		物料名称		规格		数量		日期	
<b>化学成分 (CHEMICAL COMPOSITION)</b>											
元素	名称	C	Si	Mn	P	S	Cr	V	其他	单位	范围
1	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
2	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
3	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
4	50CrV4	0.58	0.18	0.80	0.010	0.010	0.50	0.15		%	0.50-0.65
<b>检查结果 (INSPECTION RESULTS)</b>											
项目	名称	单位	检测结果	合格	不合格	备注					
1	化学成分	%	符合	是	否						
2	力学性能	MPa	符合	是	否						
3	尺寸精度	mm	符合	是	否						
4	表面质量	目视	符合	是	否						
备注: 1. 客户名称: 50CrV4 2. 物料名称: 50CrV4 3. 规格: 50CrV4 4. 数量: 50CrV4 5. 日期: 50CrV4 6. 地址: 50CrV4 7. 电话: 50CrV4 8. 传真: 50CrV4 9. 网络销售: 50CrV4 10. 网址: 50CrV4											

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