



线材  
WIRE

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



宁波隆德五金制造有限公司

宁波隆德五金制造有限公司立足于市场发展需求,不断开拓,进取与自我完善,以满足客户的一切需求为宗旨。公司同仁严格恪守该宗旨,致力于向公司合作伙伴提供我们最优质的产品,最专业的方案以及最卓越的服务。

我们专注于弹簧制造业,公司有碳素钢丝和合金钢丝,线径规格为0.10mm至22.00mm,能满足一般用途弹簧和特殊弹簧的生产需求。同时我们也能提供异型钢丝,扁钢丝和直条钢丝(直条钢丝最大线径为12mm,可生产长度最长为4,000mm)。

得益于长期以来公司在钢带分条方面的丰富经验,我们能为您提供厚度在0.10mm至6.00mm,宽度在3mm至1,250mm的钢带。为客户提供精确分条的窄钢带是我们的专业所在。此外,公司配有其它设备,能提供卷绕钢带,或者钢板等,以满足客户的不同需求。

NINGBO LONDEX INDUSTRIAL, CO. LTD.

A company must stand out because of its dynamism, its evolution and anticipation of any market development, and also for being able to satisfy all of its customers. In LONDEX we operate according to those premises, consolidating ourselves as a strong and solvent company in the sector, in order to keep inspiring the highest level of confidence throughout service and product quality, a wide product portfolio and a personalized treatment.

We stock ferrous and non ferrous wire from  $\varnothing$  0.10 to 22mm for all regular and special applications, highlighting the spring manufacturing industry as our main target. We also offer square, flat and straightened wire (these last ones up to  $\varnothing$ 12mm and 4,000mm length).

Our strip business is based on a wide experience in slitting ferrous and non ferrous metals from 0.10 to 6.0mm thickness and widths from 3 to 1,250mm. We are specialists in narrow strips guaranteeing tight tolerances to achieve customers' requests. Additional machines for the production of oscillate wound coils and cut-to-length strip allow us to offer the more convenient packaging for any customers' need.

专业的服务

PROFESSIONAL SERVICE



存储能力

STORAGE CAPACITY



提供各种包装

DIFFERENT PACKAGING



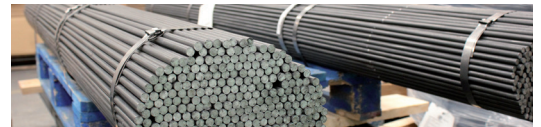
油淬火回火弹簧钢丝

OIL TEMPERED WIRE



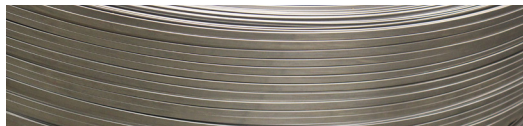
直条钢丝

STRAIGHTENED WIRE



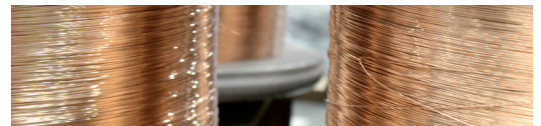
扁钢丝

FLAT WIRE



有色金属钢丝

NON FERROUS WIRE



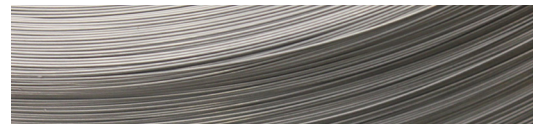
不锈钢钢丝 各种镀层

STAINLESS STEEL WIRE DIFFERENT COATINGS



锌铝镀层钢丝

Z/A COATED STEEL WIRE



线材  
WIRE

## 包装方式

## PACKAGING

类型 TYPE	登记 GRADES							最大卷重 max. weight kg
	高碳钢丝 (硬线和琴 钢丝) High Carbon Steel (Hard Drawn and Music Spring Wire)	油淬火-回 火钢丝 Oil Tempered Steel Wire	不锈钢弹 簧钢丝 Stainless Steel Spring Wire	一般用途 不锈钢 钢丝 Stainless Steel Wire for General Propose	低碳钢丝 Low Carbon Steel	有色金 属丝 Non ferrous		
打捆 Coil	●	●	●	●	●	●		500
纸筒 Orbit				●	●			1200
料架 Spider/ Carrier		●		●				2000
Z捆扎 Z-Coil	●		●	●		●	●	800
DIN160塑料线轴 DIN 160 plastic spool						●		7
DIN300塑料线轴 DIN 300 plastic spool	●						●	17
DIN355塑料线轴 DIN 355 plastic spool	●						●	45
SH390塑料线轴 SH 390 plastic spool			●				●	15
SH460塑料线轴 SH 460 plastic spool			●				●	45
G240/40铁质卷盘 Metal reel G240/40	●		●				●	300
G240/40铁质卷盘 Metal reel G360/40	●		●				●	450
G240/40木质卷盘 Wooden reel G240/40	●		●				●	300
G240/40木质卷盘 Wooden reel G360/40	●		●				●	450
直条钢丝 Straightened wire	●	●	●	●	●	●		

弹簧钢丝

WIRES FOR SPRINGS

高碳钢丝  
(硬线和琴钢丝)

High Carbon Steel  
(Hard Drawn and Music Spring Wire)

分类 Classification	JAPAN G-3521/ G3522	CHINA GB/T 4357	EUROPE EN 10270-1	US ASTM
硬拉弹簧钢丝 Hard drawn spring wire	SWB	SL	SL	A227
	SWC	SM	SM	
琴钢丝 Music spring wire	SWP-B	SH	SH	A228
		DH	DH	

规格: 0.20-20.00mm

Range of sizes: 0.20-20.00mm



涂层 Coatings:	磷化表面 Phosphated	镀锌表面 Zinc coated	锌铝镀层 Zn/Al coated	镀铜表面 Copper coated

| 3

油淬火-回火钢丝

Oil Tempered Steel Wire

分类 Classification	产品包装 Packing		钢丝类别 Specification		
			JIS	ASTM	EN
油淬火回火碳素钢丝 Oil-Tempered Carbon Wire	标准	STANDARD	JIS G 3560	ASTM A 229	EN 10270-2
	牌号	GRADE	SWO-A, B	Class 1, 2	FDC
油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire	标准	STANDARD	JIS G 3560	ASTM A 401	EN 10270-2
	牌号	GRADE	SWOSC-B	-	FDSiCr
离合器弹簧用油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire for Clutch spring	标准	STANDARD	-	-	EN 10270-2
	牌号	GRADE	-	A1000-5 Grade A	TDSiCr
阀门用油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire for Valve spring	标准	STANDARD	JIS G 3561	ASTM A 877	EN 10270-2
	牌号	GRADE	SWOSC-V	OT CrSi Valve	VDSiCr

线材尺寸(毫米) Dia.(mm)	产品包装 Packing		卷重(公斤) Carrier/Coil(kg)		
	卷筒尺寸 (毫米/英寸) Block Dia.(mm/ inch)	卷重(公斤) Carrier/Coil(kg)			
1.50~1.99	600"/24"	300			
1.70~2.29	750"/30"	500			
2.00~2.99	900"/36"	200~1,000			
3.00~4.99	1200"/48"	500~1,000			
5.00~8.00	1500"/60"	500~1,000			
8.00~16.00	1750"/70"	1,000~2,000			

料架  
SPIDER/CARRIER

| 5

不锈钢弹簧钢丝

Stainless Steel Spring Wire

JAPAN G 4314	CHINA GB/T 24588	EUROPE EN 10270-3	US ASTM
SUS 302-WPB	12Cr18Ni9	1.4310 NS	AISI 302 NS
-	-	1.4310 HS	AISI 302 HLS
SUS 316-WPA	06Cr17Ni12Mo2	1.4301	AISI 316
SUS 631J1-WPC	07Cr17Ni7Al	1.4568	AISI 631
SUS 304-WPB	06Cr19Ni9	1.4301 NS	AISI 304

规格: 0.20-14.00mm

Range of sizes: 0.20-14.00mm

交货状态 Supply conditions:	皂化涂层或者亮面 Soap coated or bright	涂(镍)雾面或者亮面 Dull or bright nickel coated

成品钢丝-线径在0.20-3.50mm之间的可以提供扒皮处理。

Shaved wire rod for final wire sizes: 0.20-3.50mm under request.

| 6

其它

OTHER WIRES

一般用途不锈钢钢丝

Stainless Steel Wire for General Propose

提供304,304Cu,316等牌号的不锈钢丝

Grades as 304, 304Cu, 316, etc. under request.

交货状态 Supply conditions:	全软线	Soft
	1/2硬线	Half hard
	皂化涂层或者亮面	Soap coated or bright

规格: 0.20-20.00mm

Range of sizes: 0.20-20.00mm

青铜弹簧钢丝

Bronze Wire for Springs

JAPAN JIS H 3270 C 5191	CHINA GB 3124 QSn6.5-0.1	EUROPE EN 12166 CuSn6	US ASTM C51900
-------------------------------	--------------------------------	-----------------------------	----------------------

一般信息

GENERAL INFORMATION

同时提供低碳钢丝,铜丝,黄铜丝,铝丝等

Other wires in low carbon steel, copper, brass or aluminium under request

常规规格产品也能提供扁钢丝或其他异型状态

Main grades can also be supplied FLAT or SQUARE

圈形与圈距  
适用于琴钢丝

Cast and Helix  
(valid for Spring Wire)

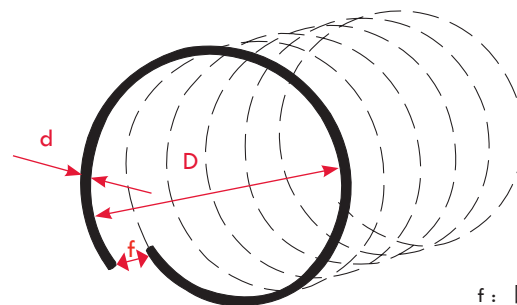
轴向位移 (圈距)  
残余扭力控制

AXIAL DISPLACEMENT (HELIX/ PITCH)  
CONTROL OF RESIDUAL TORSION

公称直径不大于5.00mm的钢丝, 圈距“f”应符合以下公式

For a turned wap (cast) the condition of non-existence of residual tension in wires with a diameter of less than 5.00mm is respected if:

$$f < \frac{0.2 \cdot D}{\sqrt[4]{d}}$$



f: 圈距  
D: 自由圈径  
d: 钢丝公称直径

## 高碳钢丝 (硬线和琴钢丝)

## HIGH CARBON STEEL (HARD DRAWN AND MUSIC SPRING WIRE)

### 化学成分

### CHEMICAL COMPOSITION

分类 Classification	C%	Si%	Mn%	P% 最大值 max.	S% 最大值 max.	Cu% 最大值 max.
硬拉弹簧钢丝 Hard drawn spring wire	0.35-1.00	0.10-0.30	0.40-1.20	0.035	0.035	0.20
琴钢丝 Music spring wire	0.45-1.0	0.10-0.30	0.40-1.20	0.020	0.025	0.12

### 机械性能

### MECHANICAL PROPERTIES

尺寸 Dia.(mm)	抗拉强度 Tensile Strength(N/mm <sup>2</sup> )					
	SWC		SWP-A		SWP-B	
	最小值 min	最大值 max	最小值 min	最大值 max	最小值 min	最大值 max
	JIS 3521		JIS 3522			
0,20	2500	2790	2600	2840	2840	3090
0,23	2450	2750	2550	2790	2790	3040
0,26	2400	2700	2500	2750	2750	2990
0,29	2350	2650	2450	2700	2700	2940
0,32	2300	2600	2400	2650	2650	2890
0,35	2300	2600	2400	2650	2650	2890
0,40	2260	2550	2350	2600	2600	2840
0,45	2210	2500	2300	2550	2550	2790
0,50	2210	2500	2300	2550	2550	2790
0,55	2160	2450	2260	2500	2500	2750
0,60	2110	2400	2210	2450	2450	2700
0,65	2110	2400	2210	2450	2450	2700
0,70	2060	2350	2160	2400	2400	2650
0,80	2010	2300	2110	2350	2350	2600
0,90	2010	2260	2110	2300	2300	2500
1,00	1960	2210	2060	2260	2260	2450
1,20	1910	2160	2010	2210	2210	2400
1,40	1860	2110	1960	2160	2160	2350
1,60	1810	2060	1910	2110	2110	2300
1,80	1770	2010	1860	2060	2060	2260
2,00	1720	1960	1810	2010	2010	2210
2,30	1670	1910	1770	1960	1960	2160
2,60	1670	1910	1770	1960	1960	2160
2,90	1620	1860	1720	1910	1910	2110
3,00	1570	1810	1670	1860	1860	2060
3,20	1570	1770	1670	1860	1860	2060
3,50	1570	1770	1670	1810	1810	1960
4,00	1520	1720	1670	1810	1810	1960
4,50	1520	1720	1620	1770	1770	1910
5,00	1470	1670	1620	1770	1770	1910
5,50	1420	1620	1570	1710	1710	1860
6,00	1420	1620	1520	1670	1670	1810
6,50	1370	1570	1520	1670	1670	1810
7,00	1370	1570	1470	1620	1620	1770
8,00	1320	1550	1470	1620	-	-
9,00	1320	1520	1420	1570	-	-
10,00	1320	1520	1420	1570	-	-

镀层高碳钢丝  
镀锌铝合金线

COATED HIGH CARBON  
Z/A STEEL WIRE

锌铝镀层具有更佳的耐腐蚀性和疲劳性能

锌铝合金镀层 (95%锌+5%铝) 与传统镀锌相比有更好的耐腐蚀性和疲劳性能

Z/A coating. More resistance and durability

The Z/A alloy (95% Zn + 5% Al) is specially developed in order to guarantee a better resistance to corrosion and durability than traditional Zn coating

性能与优点  
与一般镀锌相比，锌铝镀层具有以下优点

相同厚度锌铝镀层耐腐蚀性更佳

镀层更加均匀，更加有柔韧性在生产时摩擦较小，生产效率更高

所生产弹簧规格一致性更好

阴极保护技术能给钢丝切口和刮痕处提供更好的耐腐蚀防护

本资料仅供参考，不作为合同交货依据。如有错漏，可更正

PROPERTIES AND ADVANTAGES OF Z/A COATING  
OPPOSITE GALVANIZED COATING.

Better resistance to corrosion with the same coating mass.

"Less friction which allows a higher machine speed. Thus more productivity in forming the piece (due to a more ductile and homogeneous coating)."

Uniformity improvement in dimension of the final piece.

"More protection in ends and marks despite a superficial deterioration of wire (cathodic protection)."

All the information in this document has an informative character and does not represent any contractual supplying concision. Errors and omissions excepted.

基础材质

BASE MATERIAL

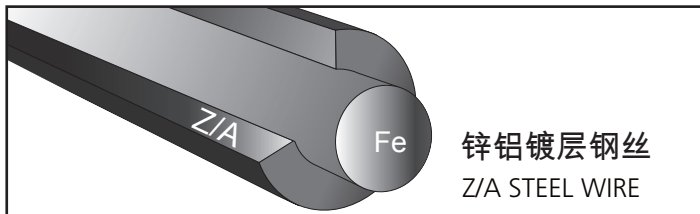
JAPAN G-3506/ G3522	CHINA GB/T 4357	EUROPE EN 10270-1	US ASTM
SWB	SL	SL	A227
SWC	SM	SM	
SWP-B	SH	SH	A228
	DH	DH	

请咨询销售

低碳钢 C3D/C9D ,SAE 1008

Also available on request

Low-carbon iron C3D/C9D, SAE 1008



订货要求. 包装方式

PACKAGING

线径 DIAMETER	Z轴包装 Z COILS
0.60 - 1.40	+/- 150 Kg
0.80 - 1.40	+/- 250 Kg
1.25 - 3.80	+/- 400 Kg
2.70 - 3.80	700 - 1000 Kg

其它要求请咨询销售

Others on request



最小镀层厚度

MINIMUM COATING MASS

线径 DIAMETER	锌铝层 Z/A MASS	
	EN 10270-1 最小值 EN 10270-1 min.	隆德标准 最小值 STANDARD LONDEX min.
0,60 < d < 0,70	40	70
0,70 < d < 0,80	45	70
0,80 < d < 0,90	50	70
0,90 < d < 1,00	55	70
1,00 < d < 1,20	60	70
1,20 < d < 1,40	65	70
1,40 < d < 1,60	70	70
1,60 < d < 1,65	70	80-140
1,65 < d < 1,85	75	80-140
1,85 < d < 2,15	80	80-140
2,15 < d < 2,50	85	80-140
2,50 < d < 2,80	95	80-140
2,80 < d < 3,20	100	80-140
3,20 < d < 3,80	105	80-140

盐雾试验

SALT SPRAY TEST

根据盐雾试验最小值要求决定  
镀层最小厚度

Minimum coating mass with the aim  
of reaching a certain number of hours

盐雾试验时间 REQUIRED HOURS	锌层 Zn MASS g/mm <sup>2</sup>	锌铝层 Z/A MASS g/mm <sup>2</sup>
40	80	-
60	95	-
80	110	-
100	130	35
120	150	40
150	190	50
200	240	60
240	270	70
300	330	105
400	430	130

## 油淬火-回火钢丝

TD和VD级材料采用纯度较高的盘元线加工而成。  
2.00-16.00mm之间的材料可提供ECT试验  
成品钢丝线径在1.50-8.00mm之间的可以提供扒皮处理。

## OIL TEMPERED STEEL WIRE

Low impurity level wire rod used for TD and VD grades.  
ECT available for sizes between 2.0 and 16.0mm.  
Shaved wire rod for final wire sizes: 1.50-8.00mm

### 化学成份

### CHEMICAL COMPOSITION

钢丝品名 Classification		化学成份 (%) Chemical Composition (%)							
		C	Si	Mn	P 最大值 max	S 最大值 max	Cu 最大值 max	Cr	V
油淬火回火碳素弹簧钢丝 Oil-Tempered Carbon Wire	JIS	0.53~0.88	0.10~0.35	0.30~1.20	0.030	0.030	-	-	-
	ASTM	0.55~0.85	0.15~0.35	0.30~1.20	0.040	0.050	-	-	-
	EN(FDC)	0.60~0.75	0.10~0.35	0.50~1.20	0.030	0.025	0.12	-	-
油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire	JIS	0.51~0.59	1.20~1.60	0.50~0.90	0.035	0.035	-	0.55~0.90	-
	ASTM	0.51~0.59	1.20~1.60	0.60~0.80	0.035	0.040	-	0.60~0.80	-
	EN(FDSiCr)	0.50~0.60	1.20~1.60	0.50~0.90	0.030	0.025	0.12	0.50~0.80	-
阀门用油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire for Valve Spring	JIS	0.51~0.59	1.20~1.60	0.50~0.80	0.025	0.025	0.20	0.50~0.80	-
	ASTM	0.51~0.59	1.20~1.60	0.50~0.80	0.025	0.025	-	0.60~0.80	-
	EN(VDSiCr)	0.50~0.60	1.20~1.60	0.50~0.90	0.025	0.020	0.06	0.50~0.80	-
高强度阀门用油淬火回火铬硅合金弹簧钢丝 Oil-Tempered Cr-Si-V Alloyed Wire For High Strength Valve Spring	JIS	0.63~0.68	1.20~1.60	0.50~0.80	0.025	0.025	-	0.5~0.80	0.1~0.20
	ASTM	0.55~0.70	1.20~1.65	0.50~0.8	0.025	0.025	-	0.5~0.80	0.08~0.25
	EN(VDSiCrV)	0.50~0.70	1.20~1.65	0.40~0.9	0.020	0.020	0.06	0.50~1.00	0.10~0.25

### 机械性能

### MECHANICAL PROPERTIES

尺寸 (毫米) Diameter mm.	公差范围 (毫米) Tolerance mm.	划痕深度 (毫米) Depth of Scratch mm.	抗拉强度 (N/mm <sup>2</sup> ) Tensile Strength (N/mm <sup>2</sup> )				断面收缩率 ROA (%)	公差范围 (毫米) Tolerance mm.	抗拉强度 (N/mm <sup>2</sup> ) Tensile Strength (N/mm <sup>2</sup> )		断面收缩率 ROA (%)
			油淬火回火碳素弹簧 钢丝 Oil-Tempered Carbon Wire		油淬火回火铬硅合金弹 簧钢丝 Oil-Tempered Cr-Si Alloyed Wire				阀门用油淬火回火铬 硅合金弹簧钢丝 Oil-Tempered Cr-Si Alloyed Wire for Valve Spring		
			SWO-B		SWOSC-B				SWOSC-V		
			最小值 min	最大值 max	最小值 min	最大值 max			最小值 min	最大值 max	
			<b>JIS G 3560</b>				<b>JIS G 3561</b>				
1,50	±0.035	0,02	-	-	1960	2110	45	±0.020	1960	2110	45
1,60	±0.035		-	-	1960	2110	45	±0.020	1960	2110	45
1,80	±0.035		-	-	1960	2110	45	±0.020	1960	2110	45
2,00	±0.035	线径的 1%. of Wire Diameter	1720	1860	1910	2060	45	±0.020	1910	2060	45
2,30	±0.035		1720	1860	1910	2060	45	±0.020	1910	2060	45
2,60	±0.035		1720	1860	1910	2060	45	±0.020	1910	2060	45
2,90	±0.035		1670	1810	1910	2060	45	±0.020	1910	2060	45
3,00	±0.035		1620	1770	1860	2010	45	±0.020	1860	2010	45
3,20	±0.035		1620	1770	1860	2010	40	±0.020	1860	2010	45
3,50	±0.045		1620	1770	1860	2010	40	±0.030	1860	2010	45
4,00	±0.045		1570	1720	1810	1960	40	±0.030	1810	1960	40
4,50	±0.045		1520	1670	1810	1960	40	±0.030	1810	1960	40
5,00	±0.045		1520	1670	1760	1910	40	±0.030	1760	1910	40
5,50	±0.045		1470	1620	1760	1910	35	±0.030	1760	1910	40
5,60	±0.045		1470	1620	1710	1860	35	±0.030	1710	1860	40
6,00	±0.060		1470	1620	1710	1860	35	±0.040	1710	1860	40
6,50	±0.060		1470	1620	1710	1860	35	±0.040	1710	1860	40
7,00	±0.060		1370	1520	1660	1810	35	±0.040	1660	1810	40
7,50	±0.060	1370	1520	1660	1810	35	±0.040	1660	1810	40	
8,00	±0.060	1370	1520	1660	1810	35	±0.040	1660	1810	40	
8,50	±0.060	1370	1520	1660	1810	30	-	-	-	-	
9,00	±0.070	1370	1520	1660	1810	30	-	-	-	-	
9,50	±0.070	1320	1470	1660	1810	30	-	-	-	-	
10,00	±0.070	1320	1470	1660	1810	30	-	-	-	-	
10,50	±0.090	1320	1470	1660	1810	30	-	-	-	-	
11,00	±0.090	1320	1470	1660	1810	30	-	-	-	-	
11,50	±0.090	1320	1470	1660	1810	30	-	-	-	-	
12,00	±0.090	1320	1470	1610	1760	30	-	-	-	-	
13,00	±0.090	-	-	1610	1760	30	-	-	-	-	
14,00	±0.090	-	-	1610	1760	30	-	-	-	-	
15,00	±0.090	-	-	1610	1760	-	-	-	-	-	
16,00	±0.090	-	-	1610	1760	-	-	-	-	-	



## 不锈钢弹簧钢丝

## STAINLESS STEEL SPRING WIRE

### 化学成分

### CHEMICAL COMPOSITION

表一 TABLE 1

型号 Type	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	N%
SUS 302	≤0.15	≤1.00	≤2.00	≤0.045	≤0.030	8.00 ~ 10.00	17.00 ~ 19.00	-	-
SUS 304	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	8.00 ~ 10.50	18.00 ~ 20.00	-	-
SUS 316	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	10.00 ~ 14.00	16.00 ~ 18.00	2.00 ~ 3.00	-

表二 TABLE 2

型号 Type	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Al%
SUS 631J1	≤0.09	≤1.00	≤1.00	≤0.040	≤0.030	7.00 ~ 8.50	16.00 ~ 18.00	0.75 ~ 1.50

### 表面状态特征及应用领域

### SURFACE FINISH & APPLICATIONS

表面 Type	型号 Symbol	等级 Grade	尺寸 Dia.(mm)	应用领域 Applications
S-Co	WPA	AISI 302,304,316	0.20~15.00	一般弹簧 General spring
	WPB	AISI 302,304	0.20~15.00	
	WPC	AISI 631J1	0.20~5.00	
Bright	WPA	AISI 302,304,316	0.15~6.00	表面有光泽，成型性能良好，适用于精密弹簧。 Precision spring good bright surface & forming processing work
	WPB	AISI 302,304	0.15~6.00	
Ni-Co	WPA	AISI 302,304,316	0.20~2.30	高速绕线 Precision coiling at high speed
	WPB	AISI 302,304		
	WPC	AISI 631J1		
Ni-Co Bright	WPA	AISI 302,304,316		
	WPB	AISI 302,304		

### 机械性能

### MECHANICAL PROPERTIES

尺寸 Dia.(mm)	公差范围 Tolerance(mm)	抗拉强度 Tensile Strength(N/mm <sup>2</sup> )		
		A 级别 CLASS A AISI 302-WPA AISI 304-WPA AISI 316-WPA	B 级别 CLASS B AISI 302-WPB AISI 304-WPB	C 级别 CLASS C AISI 631J1-WPC
0,16	±0.005	1650-1900	2150-2400	1950-2200
0,20				
0,23				
0,32	±0.008	1600-1850	2050-2300	1930-2180
0,35				
0,40				
0,45	±0.010	1530-1780	1950-2200	1850-2100
0,60				
0,65				
0,80	±0.015	1450-1700	1850-2100	1800-2050
0,90				
1,00				
1,20	±0.020	1400-1650	1750-2000	1700-1950
1,40				
1,60				
1,80	±0.025	1320-1570	1650-1900	1600-1850
2,00				
2,30				
2,60	±0.035	1230-1480	1550-1800	1500-1750
2,90				
3,20				
3,50	±0.050	1230-1480	1450-1700	1400-1650
4,00				
4,50				
6,00	±0.025	1100-1350	1350-1600	1300-1550
6,50				
8,00				
9,00	±0.035	1000-1250	1270-1520	1300-1550
10,00				
12,00				
12,00	±0.050		1130-1380	
			980-1230	
			880-1130	

# 线材 WIRE



距离：  
慈溪距离宁波60公里，距离杭州85公里，距离上海140公里

Distances:  
CIXI - NINGBO..... 60 Km. / CIXI - HANGZHOU..... 85 Km. / CIXI - SHANGHAI..... 140 Km.



宁波隆德五金制造有限公司

NINGBO LONDEX INDUSTRIAL CO, LTD

浙江省慈溪市杭州湾新区滨海一路  
First Seashore Road, Hangzhou Bay New Zone  
Cixi City, Zhejiang Province China - 315336

Tel.: 86 574 63079222

Fax: 86 574 63079228

[londex@ningbolondex.com](mailto:londex@ningbolondex.com)

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