

## 纤维钢 Fiber steel

湘钢纤维钢盘条牌号为XXW04B，具有化学成分稳定、钢质纯净、表面光洁度好、塑性好易于拉拔的特点，主要用于生产混凝土用纤维钢丝。

XISC can produce the fiber steel of XXW04B, which have the characteristics of stable chemical composition, high degree steel purity, good surface finish, good plasticity. The production are mainly used in producing the concrete used fiber steel.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格 mm Specification	交货标准 Standard	主要用途 Application
XXW04B	Φ5.5-Φ8.0	Q/OHAB106 - 2014	纤维钢丝 Fibre steel wire

### 力学性能 Machine properties

牌 号 Grade	抗拉强度Rm, Mpa Tensile strength	断后伸长率A <sub>11.3</sub> , % Elongation
XXW04B	370-410	≥25

## 轮胎用钢 Tyre wire

湘钢轮胎用钢盘条包括XTQ72A、XTQ82A、XLX72A、XLX77A、XLX82A牌号，具有化学成分稳定、偏差小、通条性能均匀、索氏体化率高、塑性好的特点，产品主要用于生产各种轮胎和胶管用钢丝。

XISC can produce the tyre wire: XTQ72A, XTQ82A, XLX72A, XLX77A, XLX82A, which have the characteristics of stable chemical composition, small deviation, uniform cleaning rod performance, high rate sorbitizing, good plasticity, good plasticity. Those are applied to all kinds of tyre wire and rubber tube wire.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格 mm Specification	交货标准 Standard	主要用途 Application
XTQ72A、XTQ82A	Φ5.5、Φ6.5	Q/OHAB119-2012	各种轮胎、胶管用钢丝 Steel wire for tyre and rubber tube
XLX72A、XLX77A、XLX82A	Φ5.5、Φ6.5	技术协议 Technial agreement	子午轮胎用钢丝 Radial tire steel wire

### 力学性能 Machine properties

牌 号 Grade	抗拉强度Rm, Mpa Tensile strength	断面收缩率Z, % Reduction of area
XTQ72A	1000-1120	≥40
XLX72A	1000-1120	≥40
XTQ82A	1100-1220	≥35
XLX82A	1100-1220	≥35

注：力学性能为人工时效后力学性能

## 弹簧钢 Spring steel

湘钢弹簧钢盘条包括X60Si2MnA、X55SiCrA等牌号，具有化学成分稳定、偏差小、脱碳少，表面质量优良、屈强比和抗疲劳性能高的特点，产品主要用于生产各种用途的民用、机械用和汽车用弹簧。

XISC can produce the spring steel: X60Si2MnA, X55SiCrA, which have the characteristics of stable chemical composition, small deviation, less decarburization, smooth surface, high yield ratio, and high antifatigue. Those are applied to producing the spring, machinery spring, and automobile spring.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格mm Specification	交货标准 Standard	主要用途 Application
X60Si2MnA	Φ5.5-Φ20	Q/OHAB115-2014	机械、汽车用弹簧 Spring for machinery and for automobile
X55SiCrA	Φ5.5-Φ20	YB/T5363-2006 技术协议 Technical agreement	

### 化学成分 Chemical composition

牌 号 Grade	(Wt%)							
	C	Si	Mn	Cr	P	S	Ni	Cu
X60Si2MnA	0.56-0.64	1.60-2.00	0.70-1.00	≤0.35	≤0.025	≤0.025	≤0.35	≤0.25
X55SiCrA	0.51-0.59	1.20-1.60	0.50-0.80	0.50-0.80	≤0.025	≤0.025	≤0.35	≤0.25

### 力学性能 Machine properties

牌 号 Grade	抗拉强度Rm, Mpa Tensile strength	屈服强度Rel, Mpa Yield strength	伸长率A, % Elongation	断面收缩率Z, % Reduction of area
X60Si2MnA	≥1570	≥1375	≥5	≥20
X55SiCrA	1450-1750	≥1300(Rp0.2)	≥6	≥25

注：力学性能为热处理后的性能

## 工具钢 Tool steel

湘钢工具钢盘条包括40CrV、50CrV、50BV30、XG6150等牌号，主要用于制作扳手、套筒、起子等五金工具。

XISC can produce the tool steel: 40CrV, 50CrV, 50BV30, XG6150, which are used to producing the wrench, sleeve, bottle opener and other hardware.



### 牌号及规格 Grade and specifications

牌号 Grade	规格mm Specification	交货标准 Standard	主要用途 Application
40CrV、50CrV	Φ5.5-Φ34	技术协议 Technial agreement	五金工具 Metallic tool
50BV30	Φ5.5-Φ34	技术协议 Technial agreement	

### 力学性能 Machine properties

牌号 Grade	抗拉强度Rm, Mpa Tensile strength	屈服强度Rel, Mpa Yield strength	伸长率A, % Elongation	断面收缩率Z, % Reduction of area
40CrV	≥885	≥735	≥10	≥50
50BV30	≥1050	≥835	≥10	≥40

## 轴承钢 Bearing steel

湘钢轴承钢盘条牌号为GCr15，具有化学成分稳定、钢质纯净、碳化物均匀、高而均匀的硬度和耐磨性、高的弹性和疲劳强度的特点，主要用于生产轴承滚动体（滚珠）。

XISC also produce the bearing steel: GCr15, which have the characteristics of stable chemical composition, high degree steel purity, uniform carbide, high and even hardness, good wear resistance, good elasticity, and good anti-fatigue strength. Those are applied to producing bearing balls.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格 mm Specification	交货标准 Standard	主要用途 Application
GCr15	Φ5.5-Φ16	GB/T18254-2002 技术协议 Technical agreement	轴承 Bearing

### 化学成分 Chemical composition

牌 号 Grade	( Wt% )					
	C	Si	Mn	P	S	Cr
GCr15	0.95-1.05	0.15-0.35	0.25-0.45	≤0.025	≤0.025	1.40-1.65

# 机械用碳素结构钢

## Carbon steels for machine structural use

湘钢机械用碳素结构钢盘条包括S20C、S35C、S45C牌号，具有化学成分稳定、塑性好、切削加工性能优良等特点，主要用于加工汽车、机械零部件。

XISC can produce the machinery carbon constructional steel: S20C, S35C, S45C, which have the characteristics of stable chemical composition, good plasticity, good machinability. Those production are applied to producing the spare parts for automobile and machinery.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格mm Specification	交货标准 Standard	主要用途 Application
S20C、S35C、S45C	Φ5.5-Φ24	JIS G 4051:2005	汽车、机械零部件 Machinery, automobile spare parts, etc

### 化学成分 Chemical composition

牌 号 Grade	( Wt% )				
	C	Si	Mn	P	S
S20C	0.18-0.23	0.15-0.35	0.30-0.60	≤0.030	≤0.035
S45C	0.42-0.48	0.15-0.35	0.60-0.90	≤0.030	≤0.035

### 力学性能 Machine properties

牌 号 Grade	抗拉强度Rm, Mpa Tensile strength	屈服强度Rel, Mpa Yield strength	伸长率A, % Elongation	断面收缩率Z, % Reduction of area
S20C	≥410	≥245	≥25	≥55
S45C	≥600	≥355	≥16	≥40



## 易切削钢

### Free cutting steels

湘钢易切削钢盘条包括XY1215、SAE1215Cr等牌号，具有切削加工性能好、塑性高、强度高的特点，产品主要用于生产轴类、螺栓、销钉等各种精密零件。

XISC can produce the free cutting steel: XY1215、SAE1215Cr, which have the characteristics of good machinability, good plasticity, and high strength. Those are applied to producing the bearing, bolt, pin and other precision parts.



### 牌号及规格 Grade and specifications

牌 号 Grade	规格mm Specification	交货标准 Standard	主要用途 Application
XY1215	Φ5.5-Φ46	Q/OHAB120-2014	轴类、螺栓、销钉等精密零件 Bearing, bolt, dowel and other precision parts
SAE1215Cr	Φ5.5-Φ46	技术协议 Technial agreement	

### 力学性能 Machine properties

牌 号 Grade	抗拉强度Rm, MPa Tensile strength	伸长率A, % Elongation	断面收缩率Z, % Reduction of area	热轧硬度HB Hot hardness
XY1215	380-540	≥22	≥45	≤160
SAE1215Cr	380-540	≥22	≥45	≤160