<table>
<thead>
<tr>
<th>Progress</th>
<th>Product</th>
<th>QA</th>
<th>Service Assurance</th>
<th>LP</th>
<th>Research and development</th>
<th>Group style</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>
Our Vision: Contact with heart, the world will be changed!
LONGSUN GROUP is a leading manufacturer of electrical contact materials and electrical contacts. It was established in 1986 and the registered capital is RMB290 million. LONGSUN GROUP has 2 production facilities such as Shanghai Longsun Alloy Co., Ltd and Wenzhou Longsun Electrical Alloy Co., Ltd.
Longsun products are widely used in high and low voltage electrical appliances, home appliances, military, audio-visual and other fields.
Longsun last 6 years sales trend chart (Unit: hundred million RMB)
Longsun is the deputy agent unit of AEAI, as the member of National Technical Committee on Electrical Alloy of Standardization of China, Longsun has participated in drafting and amending many standards for electrical alloy.
Longsun Group’s mainly products are precious clad metal, silver alloy wire, tri-metal button contact, stamping components, internal oxidized contact, powder metallurgy contact, contact rivets.
About Silver alloy wire & board

- **Processing craft**
  - Production and processing technology: Precious metals smelting process, powder metallurgy process, internal oxidation process, through extrusion, wire drawing, coining

- **Application**
  - Precious metal:
    - contact rivet
    - Impulse Welding
    - Internal oxidized alloy contact
    - clad metal strip
Contact rivet are made by Cold Pressure Welding Machines

Product Features:

- Double composite riveting efficiently save precious metal and reduce the cost.
- Tri-metal rivets can replace solid rivets. It widely used as moving contacts during two sides of contact, to a great extent reduce the material cost.
- Improve the contact rivet riveting performance.
- Apply continuous automation production.
Main Processes:

- Rivet Making
- Annealing
- Finishing
- Inspection
- Packing
- Drawing
# Contact rivet material selection

<table>
<thead>
<tr>
<th>Materials species</th>
<th>material selection</th>
<th>material characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag.Fag Series</td>
<td>Ag FAg</td>
<td>High electrical conductivity, chemical stability, good tensile strength, Fusion welding resistance is poor</td>
</tr>
<tr>
<td></td>
<td>AgNi10, AgNi15, AgNi20, AgNi30</td>
<td>High electrical conductivity, good performance in arc erosion resistance and high resistance against welding. used for small current switch, relay</td>
</tr>
<tr>
<td>AgCdO Series</td>
<td>AgCdO(10), AgCdO(12), AgCdO(15), AgCdO(17)</td>
<td>Good performance in arc erosion resistance and high resistance against welding. But not environmental protection</td>
</tr>
<tr>
<td>AgSnO2 Series</td>
<td>AgSnO2(12), AgSnO2(15), AgSnO2In2O3</td>
<td>Good performance in arc erosion resistance and welding resistance. environmental protection</td>
</tr>
<tr>
<td>AgZnO Series</td>
<td>AgZnO(8), AgZnO(10)</td>
<td>High electrical conductivity, environmental protection</td>
</tr>
</tbody>
</table>
Main Application

Contact rivet
- automotive relay
- Communications relay
- Industrial relay
- power relay
- Household relay
- microswitch
- contactor
- electric tool
- contactor
- Industrial control device
- Smart Meter
- household appliances
- aerospace
- car

Rivet contacts
About Tri-metal welding button contact

**Product Features**

- The bottom weldable layer from a material with higher electrical resistivity such as steel, nickel or copper-nickel alloy. To improve the welding process, the underside often have an embossed pattern with 5 to 7 weld projections.
- Suitable for automation continuous welding.

**Product Category**

<table>
<thead>
<tr>
<th></th>
<th>Ag</th>
<th>FAg</th>
<th>AgNi</th>
<th>AgCdO</th>
<th>AgSnO₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu/Fe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CuNi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Main Application**

- TDS
- Micro switch
- Heat protector
Material: 
AgW, AgWC, AgNiC, AgC, AgWCC, AgSnO, AgZnO, CuW, etc

Features
• good welding resistance, good Material transfer resistance;
• Silver tungsten electrical shock with high hardness, extremely resistant to abrasion, material of carbon can effectively prevent arc oxidation layer formation, so that the material has good stability.
Main Processes:

- powder mixing
- pelleting
- shaping
- sintering/infiltration
- re-pressing

Inspecting packing → surface treatment
Main Application

Power Metallurgy contact → MCB → MCCB → building power distribution

breaker framework → low-voltage distribution system
About Internal oxidized alloy contact

Product features,

Silver cadmium oxide electrical contact material is widely used, the low melting point of contact in contacts of sublimation can make the cooling surface of contact, and at the same time quenching effect, prevent contact burning.

AgSnO₂, AgSnO₂In₂O₃ contact has the advantages of high hardness, high resistance to fusion welding and resistance to burning etc..

The material is the best environmental protection material to replace AgCdO.

| 材料种类 | 材料名称 | 银含量  
<table>
<thead>
<tr>
<th>wt%</th>
<th></th>
<th>g/cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgCdO₁₀</td>
<td>90</td>
<td>≥10.1</td>
</tr>
<tr>
<td>AgCdO₁₀</td>
<td>88</td>
<td>≥10.0</td>
</tr>
<tr>
<td>AgCdO₁₀</td>
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<tr>
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<td>83</td>
<td>≥9.8</td>
</tr>
<tr>
<td>AgSnO₂(B)</td>
<td>92</td>
<td>≥9.9</td>
</tr>
<tr>
<td>AgSnO₂(10)</td>
<td>90</td>
<td>≥9.8</td>
</tr>
<tr>
<td>AgSnO₂(12)</td>
<td>88</td>
<td>≥9.7</td>
</tr>
<tr>
<td>AgSnO₂(5)In₂O₃(3)</td>
<td>92</td>
<td>≥9.9</td>
</tr>
<tr>
<td>AgSnO₂(6)In₂O₃(4)</td>
<td>90</td>
<td>≥9.8</td>
</tr>
<tr>
<td>AgSnO₂(8)In₂O₃(4)</td>
<td>88</td>
<td>≥9.7</td>
</tr>
</tbody>
</table>
Main Processes:

- smelting
- extrusion
- hot rolling
- cold rolling
- stamping
- Inspecting packing
- surface treatment
- Internal oxidized

Oxidation of alloys in contact
Main Application

Internal oxidized alloy contact → contactor → motor control

Main Application

合金内氧化触点
Oxidation of alloys in contact

Internal oxidized alloy contact → MCB → building power distribution
About Contact assembly

Contact assembly is mainly through the way of welding and riveting, assembling the copper part and contact point together. Provide the best and the most economical solution, at the same time reduce the purchase cost of customers. It’s widely used in miniature low-voltage circuit breaker and low voltage electrical control.

<table>
<thead>
<tr>
<th>Processing Method</th>
<th>Productivity</th>
<th>Mould into</th>
<th>Production Scale</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual straight riveting</td>
<td>low</td>
<td>low</td>
<td>small-lot production</td>
<td></td>
</tr>
<tr>
<td>Manual spin riveting</td>
<td>low</td>
<td>low</td>
<td>small-lot production</td>
<td>Riveting intensity</td>
</tr>
<tr>
<td>Manual welding</td>
<td>low</td>
<td>low</td>
<td>small-lot production</td>
<td></td>
</tr>
<tr>
<td>Automatic welding</td>
<td>high</td>
<td>high</td>
<td>medium scale production</td>
<td></td>
</tr>
<tr>
<td>Automatic stamping</td>
<td>Very high</td>
<td>high</td>
<td>volume-produce</td>
<td>Good consistency</td>
</tr>
<tr>
<td>Automatic Impulse Welding</td>
<td>Very high</td>
<td>Very high</td>
<td>volume-produce</td>
<td>Good consistency, good welding strength</td>
</tr>
</tbody>
</table>
Main Processes:

- striking
- surface treatment
- welding
- silver plating/surface treatment
- riveting
- Inspecting packaging

Contact assembly
Main Application

Contact assembly

All kinds of industrial control contactor

Thermostat

Oxidation of alloys in contact
Clad materials consist of two or more layers of different materials, the contact material and the carrier, which are firmly bonded to each other, which use advanced cladding at room temperature or heat composite technology, to make new functional material, its components can be retained, and the composite effect can be performed.

The clad metal for commentator and brush in micro are belong to the environmental protection product.

- Good chemical stability, and contact strip resistance is less than 10 mΩ
- Good resistance to vulcanization and anti-oxidation.
- Good mechanical strength, motor long service life.

贵金属复合带材
Precious metal composite materials
Main Processes:

- Slitting
- Rolling
- Annealing
- Bonding
- Inspection
- Testing
- Packing

Precious metal composite materials
Main Application

- Precious metal composite strip
- Thermostat
- Thermal protector
- Relay
- Electronic packaging
- Model airplane
- Micro motor
- DVD
- The camera
- Phone
- Car
- Shaver
Quality Control

Our group have fully control on raw materials, process, and finished products. Also making self-test, inspection, sampling inspection, final inspection and quality control measures, having data summary analysis monthly, making continuous improvement.
We have industry standard laboratory and advanced testing equipment, equipped with a scanning electron microscope and ICP-OES (Made in USA), Atomic Absorption Spectrometer, ultrasonic nondestructive testing system, electrical performance simulation of advanced testing equipment testing machine, universal testing machine, laser particle size analyzer can cooperate with the customers to complete product development, proficient in material performance, ensure product parameter measurement accuracy.
we owe the integration production capacity. By means of SPC, FMEA and other statistical analysis, Longsun have critical quality control and to ensure the products stability.
We have full of youthful spirit of the customer service team, care for the customers;

We have a superb equipment and the ability to make strong technical development to help customers to solve any of the problems they have;

We use the ERP production system operation to develop our company effectively and rapidly.
Longsun began to work on lean production from 2010, invited expert of famous enterprises including Schneider Electric, training and making on-site guidance. Longsun uses 5S and visual management, Kanban management, Kaizen and other tools. Simplifying Process Flow to improve output and reduce costs.
Kanban Management and Visual Management

Kanban management has been performed in Longsun, making rules of "Qroduction Management Kanban", "Quality Kanban", "KPI Kanban", "Process Management Kanban", to make company members get the information timely, improve quickly, reduce waste, improve efficiency. And realize lean production in practice.
Kaizen

Since the lean production has been performed, Longsun has implemented best practices in Kaizen successfully to reduce the activities Non Value-Creating improvement case for each link, continuing to reduce non-value-added activities, eliminate waste, improve the quality of the products constantly.
5S management

Longsun has established the 5S group, inspecting and managing the factors of production including person, machine, material, method of manufacturing during the production run.
Longsun Group sets up technical centers which brought together a group of specialists engaged in developing high-quality and high-performance contact materials.
R & D center, imported foreign advanced measuring equipment
Internal oxidation of alloy

工艺流程 (Process Flow)

- Ag
- Me
- 熔炼 (Melting)
- 挤压 (Extrusion)
- AgMe 合金 (AgMe Material)
- 氧化 (Oxidation)
- 压制 (Pressing)
- 挤压 (Extrusion)
- AgMeO 丝材 \\ 板材 (AgMeO wire & board)

工艺特点 (Process Trait)

Internal oxidation of alloy in alloying process making Ag atoms and Me atoms arranged regularly to have Oxide particles in Ag substrate line close to the micro-level dispersed regularly in the later oxidation process. Good dispersion strengthened makes it has anti the arc erosion ability.

金相组织 (Material Properties):

- AgSnO2In2O3 (12) -5 200X
- AgCdO (12) -5 200X

notes: Me means one or several metals in Sn, In, Cd
## Internal oxidation of alloy

### Material Properties

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Types</th>
<th>Hardness (Hv)</th>
<th>Tensile Strength (Mpa)</th>
<th>Ductility (%)</th>
<th>Resistivity (μΩ·cm)</th>
<th>Density (g/cm³)</th>
<th>Other Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgSnO2In2O3 (10) -5</td>
<td>LSI510</td>
<td>≥75</td>
<td>260-320</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td>TANAKA SIE-14B</td>
</tr>
<tr>
<td>AgSnO2In2O3 (12) -5</td>
<td>LSI512</td>
<td>≥80</td>
<td>270-330</td>
<td>15-25</td>
<td>≤2.5</td>
<td>≥9.7</td>
<td>TANAKA SIE-29B</td>
</tr>
<tr>
<td>AgSnO2In2O3 (14.5) -5</td>
<td>LSI514</td>
<td>≥95</td>
<td>280-380</td>
<td>12-25</td>
<td>≤2.6</td>
<td>≥9.6</td>
<td>TANAKA SIE-21DK</td>
</tr>
<tr>
<td>AgSnO2In2O3 (16) -5</td>
<td>LSI516</td>
<td>≥105</td>
<td>270-380</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td>TANAKA SIE-25DF</td>
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<tr>
<td>AgCdO (10) -5</td>
<td>LSC510</td>
<td>≥70</td>
<td>260-350</td>
<td>15-25</td>
<td>≤2.10</td>
<td>≥10.10</td>
<td></td>
</tr>
<tr>
<td>AgCdO (12) -5</td>
<td>LSC512</td>
<td>≥75</td>
<td>260-380</td>
<td>15-25</td>
<td>≤2.15</td>
<td>≥10.05</td>
<td></td>
</tr>
<tr>
<td>AgCdO (15) -5</td>
<td>LSC515</td>
<td>≥75</td>
<td>260-380</td>
<td>15-25</td>
<td>≤2.25</td>
<td>≥9.95</td>
<td></td>
</tr>
<tr>
<td>AgCdO (17) -5</td>
<td>LSC515</td>
<td>≥75</td>
<td>260-380</td>
<td>15-25</td>
<td>≤2.30</td>
<td>≥9.9</td>
<td></td>
</tr>
</tbody>
</table>
Powder internal oxidation in alloying process also makes Ag atoms and Me atoms arranged regularly to have Oxide particles in Ag substrate line close to the micro-level dispersed regularly in the later oxidation process. Good dispersion strengthened makes it has anti arc erosion ability.

**Material Properties:**

- **AgSnO2** (12)-6 200X
- **AgSnO2In2O3** (12)-3 200X

*notes: Me means one or several metals in Sn, In, Zn*
## Powder internal oxidation

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Types</th>
<th>Hardness (Hv)</th>
<th>Tensile Strength (Mpa)</th>
<th>Ductility (%)</th>
<th>Resistivity (μΩ·cm)</th>
<th>Density (g/cm³)</th>
<th>Other Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgSnO₂ (10) -3</td>
<td>LST310</td>
<td>≥75</td>
<td>260-380</td>
<td>8-30</td>
<td>≤2.3</td>
<td>≥9.9</td>
<td>TANAKA SBE-12W</td>
</tr>
<tr>
<td>AgSnO₂ (12) -3</td>
<td>LST312</td>
<td>≥80</td>
<td>260-380</td>
<td>8-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td>TANAKA SBE-17</td>
</tr>
<tr>
<td>AgSnO₂ (10) -6</td>
<td>LST610</td>
<td>≥75</td>
<td>260-380</td>
<td>15-30</td>
<td>≤2.3</td>
<td>≥9.9</td>
<td></td>
</tr>
<tr>
<td>AgSnO₂ (12) -6</td>
<td>LST612</td>
<td>≥90</td>
<td>260-380</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td>TANAKA FE-160</td>
</tr>
<tr>
<td>AgSnO₂In₂O₃ (10) -3</td>
<td>LSI310</td>
<td>≥75</td>
<td>260-320</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td></td>
</tr>
<tr>
<td>AgSnO₂In₂O₃ (12) -3</td>
<td>LSI312</td>
<td>≥80</td>
<td>270-330</td>
<td>15-25</td>
<td>≤2.5</td>
<td>≥9.7</td>
<td>TANAKA TSE-173</td>
</tr>
<tr>
<td>AgSnO₂In₂O₃ (14.5) -3</td>
<td>LSI314</td>
<td>≥95</td>
<td>280-380</td>
<td>12-25</td>
<td>≤2.6</td>
<td>≥9.6</td>
<td>TANAKA TSE-212F</td>
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<tr>
<td>AgSnO₂In₂O₃ (16) -3</td>
<td>LSI316</td>
<td>≥105</td>
<td>260-320</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.8</td>
<td>TANAKA TSE-253F</td>
</tr>
</tbody>
</table>
Powder metallurgy is an industrial technology mixing two or more than two kinds of metal (or metallic powder and non-metallic powder) to get uniformity, after forming and burning, preparation of metal materials, composite materials and various types of products. Powder metallurgy technology has a series of advantages including obvious energy saving, material saving, excellent performance, good stability and high precision. It is very suitable for mass production. Powder metallurgy has the chemical composition and mechanical, unique physical properties, and these properties cannot be obtained by traditional methods of casting.

**金相组织 (Material Properties):**

- AgSnO₂ (12) - 1  200X
- AgNi (10)  200X
## Powder metallurgy

### Material properties (Material Properties)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Types</th>
<th>Hardness (Hv)</th>
<th>Tensile Strength (Mpa)</th>
<th>Ductility (%)</th>
<th>Resistivity (μΩ·cm)</th>
<th>Density (g/cm³)</th>
<th>Other types</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgSnO2 (8)-1</td>
<td>LST108</td>
<td>≥60</td>
<td>200-320</td>
<td>15-35</td>
<td>≤2.3</td>
<td>≥10.0</td>
<td>DODUCO SISTADOX 8P</td>
</tr>
<tr>
<td>AgSnO2 (10)-1</td>
<td>LST110</td>
<td>≥65</td>
<td>220-330</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.9</td>
<td>DODUCO SISTADOX 10P</td>
</tr>
<tr>
<td>AgSnO2 (12)-1</td>
<td>LST112</td>
<td>≥70</td>
<td>230-330</td>
<td>15-30</td>
<td>≤2.5</td>
<td>≥9.8</td>
<td>DODUCO SISTADOX 12P</td>
</tr>
<tr>
<td>AgSnO2 (14)-1</td>
<td>LST114</td>
<td>≥70</td>
<td>230-350</td>
<td>15-35</td>
<td>≤2.6</td>
<td>≥9.6</td>
<td>DODUCO SISTADOX 14WPD</td>
</tr>
<tr>
<td>AgZnO (8)-1</td>
<td>LSZ108</td>
<td>≥60</td>
<td>250-380</td>
<td>15-35</td>
<td>≤2.22</td>
<td>≥9.7</td>
<td>DODUCO DODURIT 8P</td>
</tr>
<tr>
<td>AgNi (10)</td>
<td>LSN110</td>
<td>≥55</td>
<td>210-260</td>
<td>15-35</td>
<td>≤2.00</td>
<td>≥10.25</td>
<td></td>
</tr>
<tr>
<td>AgNi (15)</td>
<td>LSN115</td>
<td>≥60</td>
<td>240-320</td>
<td>15-35</td>
<td>≤2.10</td>
<td>≥10.15</td>
<td></td>
</tr>
<tr>
<td>AgNi (20)</td>
<td>LSN120</td>
<td>≥70</td>
<td>250-350</td>
<td>15-35</td>
<td>≤2.22</td>
<td>≥10.05</td>
<td></td>
</tr>
</tbody>
</table>
Chemical coating method AgSnO₂ material, dispersion of SnO₂ particles in the Ag matrix on the silver is coating on the surface of SnO₂ particles, is a dispersed form between macro particle level and micro atomic level.

金相组织 (Material Properties):

AgSnO₂ (12 )- 2  200X

notes: Me means one or several metals in Sn、In.
### Material Properties

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Types</th>
<th>Hardness (Hv)</th>
<th>Tensile Strength (Mpa)</th>
<th>Ductility (%)</th>
<th>Resistivity (μΩ·cm)</th>
<th>Density (g/cm³)</th>
<th>Other Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgSnO2 (8)-2</td>
<td>LST208</td>
<td>≥60</td>
<td>200-320</td>
<td>15-35</td>
<td>≤2.3</td>
<td>≥10.0</td>
<td></td>
</tr>
<tr>
<td>AgSnO2 (10)-2</td>
<td>LST210</td>
<td>≥65</td>
<td>220-330</td>
<td>15-30</td>
<td>≤2.4</td>
<td>≥9.9</td>
<td></td>
</tr>
<tr>
<td>AgSnO2 (12)-2</td>
<td>LST212</td>
<td>≥70</td>
<td>230-330</td>
<td>15-30</td>
<td>≤2.5</td>
<td>≥9.8</td>
<td></td>
</tr>
<tr>
<td>AgSnO2 (14)-2</td>
<td>LST214</td>
<td>≥70</td>
<td>230-350</td>
<td>15-35</td>
<td>≤2.6</td>
<td>≥9.6</td>
<td></td>
</tr>
</tbody>
</table>
Melting process is a kind of traditional production process, put the metal into the heating furnace to melt and concoct to get the alloy we needed.

Material Properties:

- PAg 200X
- AgNi (0.15) 200X
- AgCu3 200X
- AgCu24Ni 200X
## Material Properties

<table>
<thead>
<tr>
<th>Product Name</th>
<th>hardness (Hv)</th>
<th>tensile strength (Mpa)</th>
<th>ductility (%)</th>
<th>resistivity (μΩ·cm)</th>
<th>density (g/cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAg</td>
<td>≥30</td>
<td>160-190</td>
<td>25-45</td>
<td>≤1.75</td>
<td>≥10.48</td>
</tr>
<tr>
<td>AgNi (0.15)</td>
<td>≥30</td>
<td>180-220</td>
<td>25-40</td>
<td>≤1.90</td>
<td>≥10.45</td>
</tr>
<tr>
<td>AgCu3</td>
<td>≥40</td>
<td>230-330</td>
<td>15-30</td>
<td>≤1.92</td>
<td>≥10.4</td>
</tr>
<tr>
<td>AgCu4</td>
<td>≥45</td>
<td>230-350</td>
<td>15-30</td>
<td>≤1.95</td>
<td>≥10.4</td>
</tr>
<tr>
<td>AgCu10</td>
<td>≥50</td>
<td>250-370</td>
<td>15-30</td>
<td>≤2.0</td>
<td>≥10.3</td>
</tr>
<tr>
<td>AgCu15</td>
<td>≥60</td>
<td>260-380</td>
<td>15-30</td>
<td>≤2.1</td>
<td>≥10.2</td>
</tr>
<tr>
<td>AgCu28</td>
<td>≥60</td>
<td>270-380</td>
<td>15-30</td>
<td>≤2.2</td>
<td>≥9.9</td>
</tr>
<tr>
<td>AgCu24Ni</td>
<td>≥60</td>
<td>280-380</td>
<td>15-30</td>
<td>≤2.3</td>
<td>≥10.2</td>
</tr>
</tbody>
</table>
Technical support has become a part of products from Longsun alloy and an important part of enterprise services. Technical support is not only in order to solve the technical problems, but also to reach the perfect combination of service and quality. Longsun studied properties of contact material in large quantities, and cooperated with customers in new product development, and actively cooperated with the customers to research contact materials in the electrical design, help customers develop all kinds of lower cost, superior performance model of electric apparatus.
Company interest games
The basketball game
Friends, let us dream carrying out together! Remember to contact...... ..