

## Solar Ribbon



### Description

Solar RIBBON is a kind of fine high-carbon steel wire of high strength, high hardness, and high wear resistance. It is used as the carrier for multi-wire sawing to cut super-hard crystalline materials, such as silicon, gallium arsenide, indium phosphide, silicon carbide and crystal.

### Product advantages

- . Less kerf loss;
- . Higher efficiency, capacity and precision;
- . Lower processing cost.

### Marsrock advantages

- . Sourcing global best quality raw materials and key consumables;
- . First class production machine and optimized layout;
- . Rich experienced production and technical team;
- . Most advanced lab equipment;
- . Outstanding R&D capabilities, offering customized products;
- . ISO9001: 2008 certified;
- . Extensive application and technical services.

### Specifications

1. Base Copper Parameter	
Base copper trademark	Oxygen-free copper C1022
Copper purity	Cu≥99.97%
Electrical conductivity	≥100% IACS
Resistivity	≤0.01724 Ω·m m2/m

## 2. Coating Thickness and Composition (can customize according to clients' technical requirement)

Coating Alloy Type	Coating Composition	Coating Thickness each side (mm)	Coating Thickness Tolerance (mm)
Leaded	Sn60% Pb40%	0.01-0.04	±0.01
	Sn62% Pb36% Ag2%	0.01-0.04	±0.01
Lead-free	Sn97% Ag3%	0.01-0.04	±0.01

## 3. Mechanical Characters for Common Spool Product

Elongation	≥15%
Tensile strength	≥150MPa
Side camber	L≤8mm/1000mm

## 4. Physical Dimension and Tolerance of Common Spool Product

Thickness range	0.045-0.35mm (can customize according to clients' technical requirement)		
Thickness tolerance	±0.02mm		
Width range	1.0-2.5mm (can customize according to clients' technical requirement)		
Width tolerance	±0.08mm		
Common Specification of Tabbing Ribbon(mm) (Spool Package)			
0.18×2.0	0.22×2.0	0.24×2.0	0.27×2.0
0.20×1.5	0.23×1.5	0.25×1.5	0.30×1.5
0.20×1.6	0.23×1.6	0.25×1.6	0.30×1.6
0.2×1.8	0.23×1.8	0.25×1.8	0.30×1.8
0.2×2.0	0.23×2.0	0.25×2.0	0.30×2.0

## Storage Conditions and Shelf Life

Tinned copper ribbon should be stored in dry and ventilated room, where should be no acid, alkali, or harmful gas and the indoor relative humidity should not exceed 60%. Place it horizontally while stacking and avoid the carton extrusion & vertical placement, meanwhile, the stacking quantity of same products not exceed five layers or 1 ton. The shelf life can be up to six months since the production date.