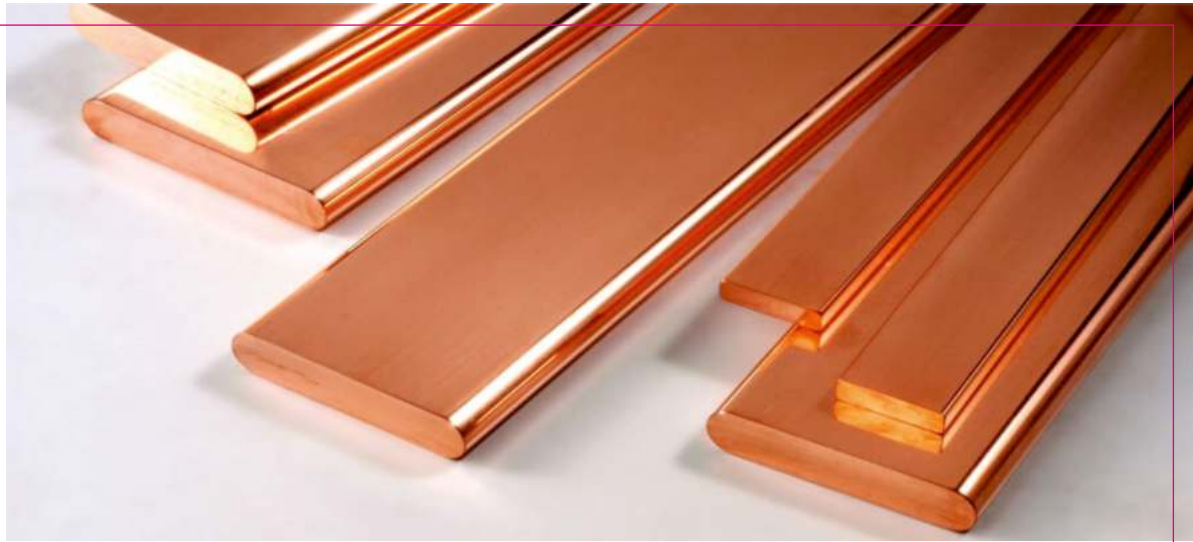




**GCAL**

www.gcal.co.in



## COPPER FLATS

Gujarat Copper Alloys Ltd. is a recognized company offering the qualitative range of Copper Bars / Flats. We are offering a different range of copper grade products that meet the requirements of our clients. We take pride in being able to guarantee maximum efficiency, durability and quality in our products as per the international standards. We are one of the leading copper Flats Manufacturer in copper industry.

### Product Description

In electric power distribution, Copper Flats is a pure copper flats or bar, typically housed inside switchgear, panel boards, and busway enclosures for local high current power distribution. They are also used to connect high voltage equipment at electrical switchyards, and low voltage equipment in battery banks.

### Product Details :

<b>Material</b>	Copper Flats
<b>Brand</b>	GCAL
<b>Type</b>	Straight Bar
<b>Width</b>	10mm to 300mm
<b>Thickness</b>	1mm (min) to 50mm (max)
<b>LENGTH</b>	Straight Length : 1 mtr 6 mtr
<b>Grade</b>	C10100 - (OFE) Oxygen Free Electrolytic C11000 - (ETP) Electrolytic Tough Pitch
<b>Temper</b>	Soft (Annealed)   Hard   Half Hard   Quarter Hard   Full Hard

### Benefits :

Copper Flats distribute electricity with greater ease and flexibility than some other more permanent forms of installation and distribution.

### Other Benefits

- ⊙ More compact and robust than a wiring harness.
- ⊙ Distributes power efficiently.
- ⊙ Copper Busbars are Very Good Conductor.
- ⊙ Easily customised for whatever purpose.
- ⊙ Cost Effective in the Long Run.
- ⊙ Recyclable

### Specifications :

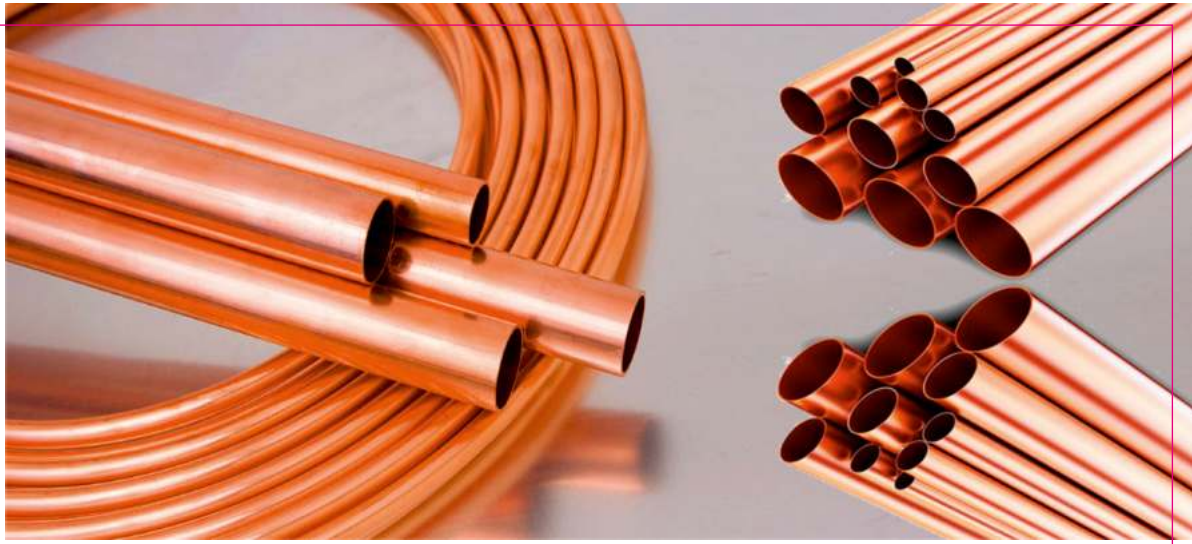
- ⊙ IS - Indian Standard
- ⊙ BS - British Standards
- ⊙ EN - European Nation Standards
- ⊙ ASTM - American Standards
- ⊙ AS - Australian Standards
- ⊙ JIS - Japanese Standards





**GCAL**

www.gcal.co.in



## COPPER TUBES

We are one of the leading Manufacturer of Copper Tubes in Copper Industry. We also manufacture Copper Bus Bar, Copper Flats, Copper Rods/Hex, Copper Strips & Foils, Copper Alloys Products, Copper Profiles & Sections, Copper Tubes, Brass Coils etc.

### Copper Tubes

Copper tube is one of the components that is needed in air conditioning and refrigerant system. The tube is used as a path for the refrigerant to flow between system components and to contain it from escaping to the atmosphere.

Product Details :	
Material	Copper
Brand	GCAL
Type	Straight Copper Tube
Outside Diameter	(3/16") 4.76mm to (4.1/8") 104.78mm
Thickness	0.508mm (0.020") min
LENGTH	Straight Length : 6mtr Max. & Coil: 15.24 mtr
Grade	C11000 – (ETP) Electrolytic Tough Pitch Copper C12200 – (DHP) High Phosphorus Deoxidised Tough Pitch Copper
Temper	Soft (Annealed)   Hard   Half Hard   Quarter Hard

### Benefits :

Copper as a metal has highly anti-corrosive properties compared to aluminium. During the cooling process, pipes comes in contact with air which causes oxidation within these pipes. Copper can better handle oxidation and corrosion for longer periods ultimately gives air conditioners a longer lifespan.

### Other Benefits :

- ⊙ Bactericidal, fungicidal and algicidal effect
- ⊙ Easy to Install
- ⊙ Low Coefficient of Expansion
- ⊙ Excellent Thermal Conductivity
- ⊙ Low Pressure Loss
- ⊙ High mechanical stability
- ⊙ Oxygen impermeability
- ⊙ Immune to ageing
- ⊙ Aesthetic
- ⊙ Recyclable

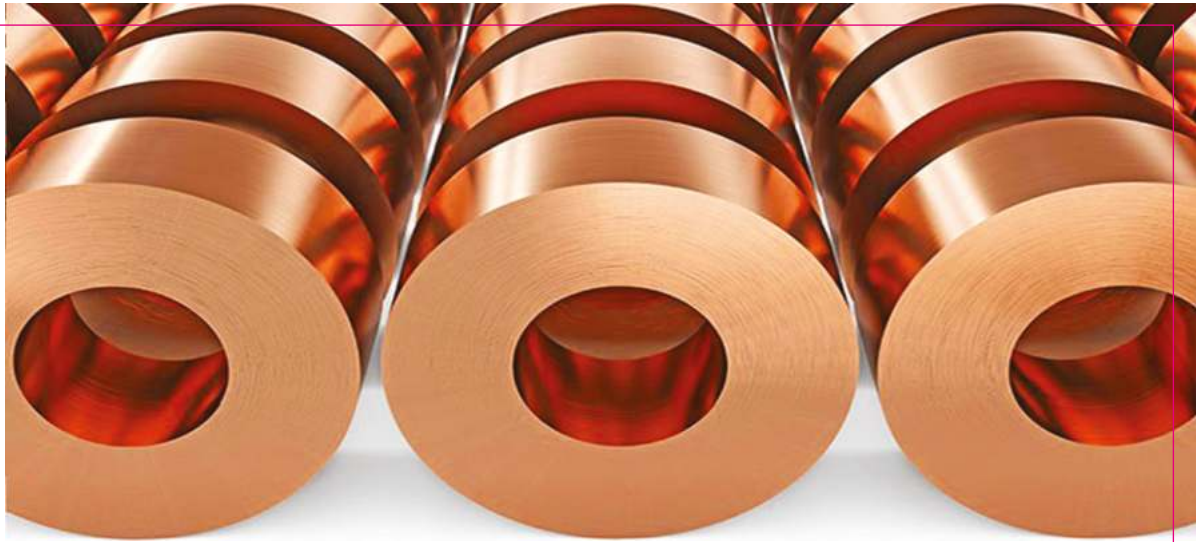


Manufacturers, exporters of Copper Tubes, Copper Tubes for VRV or VRF, Copper Tubes for Split & Duct AC, Copper Tubes for Cold Storage, Copper Low Fin Tubes for Evaporators & Chillers from Mumbai, India



**GCAL**

www.gcal.co.in



## COPPER STRIPS & FOILS

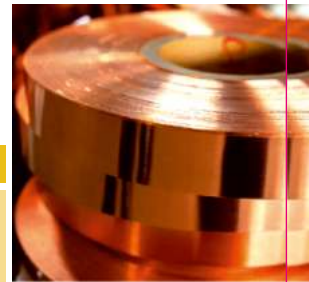
We are one of the leading Manufacturer of Copper Strips & Foils in Copper Industry. We also manufacture Copper Bus Bar, Copper Rods/Hex, Copper Flats, Copper Alloys Products, Copper Profiles & Sections, Copper Tubes, Brass Coils etc.

### Copper Strips

In electric power distribution, Copper Strips is a pure copper strip or bar, typically housed inside switchgear, panel boards, and busway enclosures for local high current power distribution. They are also used to connect high voltage equipment at electrical switchyards, and low voltage equipment in battery banks.

### APPLICATIONS

- ⊙ Electrical distribution
- ⊙ Electronics
- ⊙ Connectors
- ⊙ Transformers
- ⊙ Auto Sector



### Copper Foils

We are one of leading manufacturer of Copper Foil, We can supply you copper foil in various thickness as per your requirement. This Copper Foil is used in Manufacturing of following.



- ⊙ Transformer Manufacturing.
- ⊙ Heat Exchangers
- ⊙ Radiators.
- ⊙ Flexible ( Jumpers)
- ⊙ Switchgear Industry.
- ⊙ Solar Panel Manufacturing.
- ⊙ Cable Sheathing



Tin Plated Copper Coils & Plates

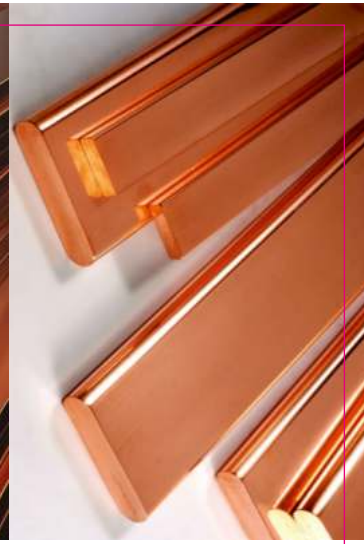
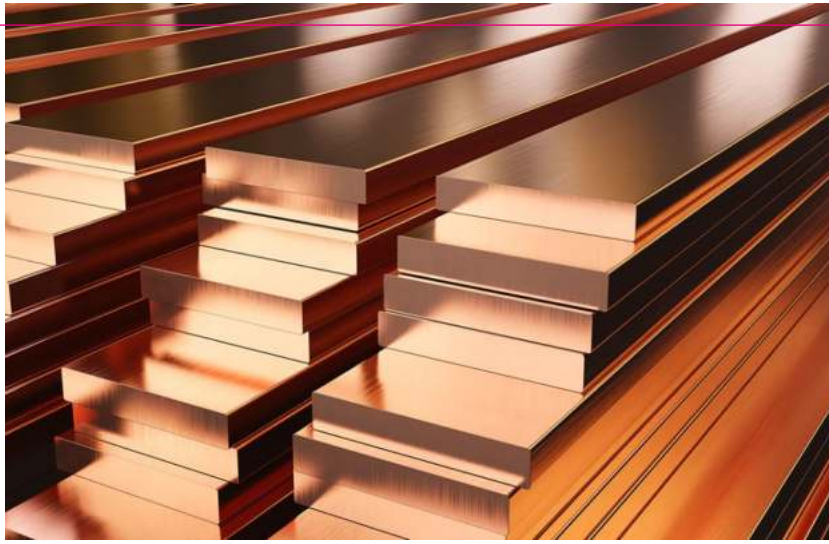


Product Details - Copper Foil :	
Material	Copper
Brand	GCAL
Thickness	0.09 mm to 6.0 mm
Length	50 m
Width	300 mm
Technique	Cold Rolled
Packaging Type	Coil form



**GCAL**

[www.gcal.co.in](http://www.gcal.co.in)



## COPPER BUSBAR

Gujarat Copper Alloys Limited. Manufacturers, Suppliers and exports finest quality of Copper Busbar and Copper-based products to industries across the world.

### Copper Busbar

In electric power distribution, Copper Busbars is a pure copper bar, typically housed inside switchgear, panel boards, and busway enclosures for local high current power distribution. They are also used to connect high voltage equipment at electrical switchyards, and low voltage equipment in battery banks.

Product Details :	
Material	Copper
Brand	GCAL
Type	Straight Copper Busbar
Width	10mm to 300mm
Thickness	1mm (min) to 50mm (max)
LENGTH	Straight Length : 1mtr to 6mtr
Grade	C10100 – (OFE) Oxygen Free Electrolytic C11000 – (ETP) Electrolytic Touch Pitch
Temper	Soft (Annealed)   Half Hard   Quarter Hard

### Benefits :

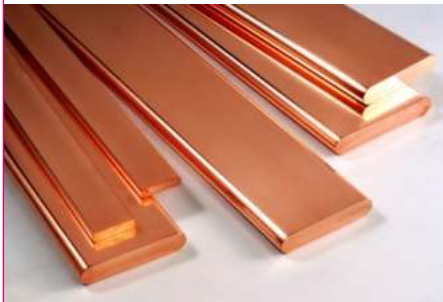
Copper Busbars distribute electricity with greater ease and flexibility than some other more permanent forms of installation and distribution.

### Quick Bus Bar Size Selector:

Use this table as a rough guide to bus bar cross sections for the ampacities shown. You can confirm the figures in this table by comparing your requirements to the Copper Development Association's Ampacity Data Table 1, "Ampacities of Copper No. 110 Bus Bar. For Further Size Selection, Please refer to our website: [www.gcal.co.in](http://www.gcal.co.in)

### Specifications :

- ⦿ IS - Indian Standard
- ⦿ BS - British Standards
- ⦿ EN - European Nation Standards
- ⦿ ASTM - American Standards
- ⦿ AS - Australian Standards
- ⦿ JIS - Japanesse Standards





**GCAL**  
www.gcal.co.in



## COPPER RODS/HEX

We are a leading Manufacturer of copper rod for electrical, copper rod for automobile industries, copper rod for components and copper alloy rods for electrical. Copper rods are finished by cold drawing after casting. They are available in a comprehensive range of sizes with superb dimensional accuracy & finish. Our copper rods are used for connectors, electrical motor components, electroplating, switchgear, ship building and power generating equipment.

### COPPER RODS (ROUNDS)

Outer from 8mm to 25mm.

Available in straight lengths/coils

### GRADES

1. Oxygen free high Conductivity Copper

#### Copper Rod

In electric power distribution, Copper Rod is made out of pure copper. Copper rods are typically housed inside switchgear, panel boards, and busway enclosures for local high current power distribution. They are also used to connect high voltage equipment at electrical switchyards, and low voltage equipment in battery banks.

#### Benefits :

Copper Rods distribute electricity with greater ease and flexibility than some other more permanent forms of installation and distribution.

Product Details :	
Material	Copper
Brand	GCAL
Type	Straight Bar
Sizes	2 mm (min) to 150 mm (max)
Length	Straight Length : 1 mtr 6 mtr
Grade	C10100 - (OFE) Oxygen Free Electrolytic C11000 - (ETP) Electrolytic Tough Pitch
Temper	Soft (Annealed)   Half Hard   Quarter Hard   Full Hard

#### Benefits :

Copper Rods distribute electricity with greater ease and flexibility than some other more permanent forms of installation and distribution.

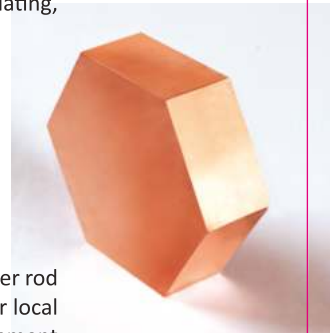
#### Edges :



Round Bar (RB) Hexagon

#### Specifications :

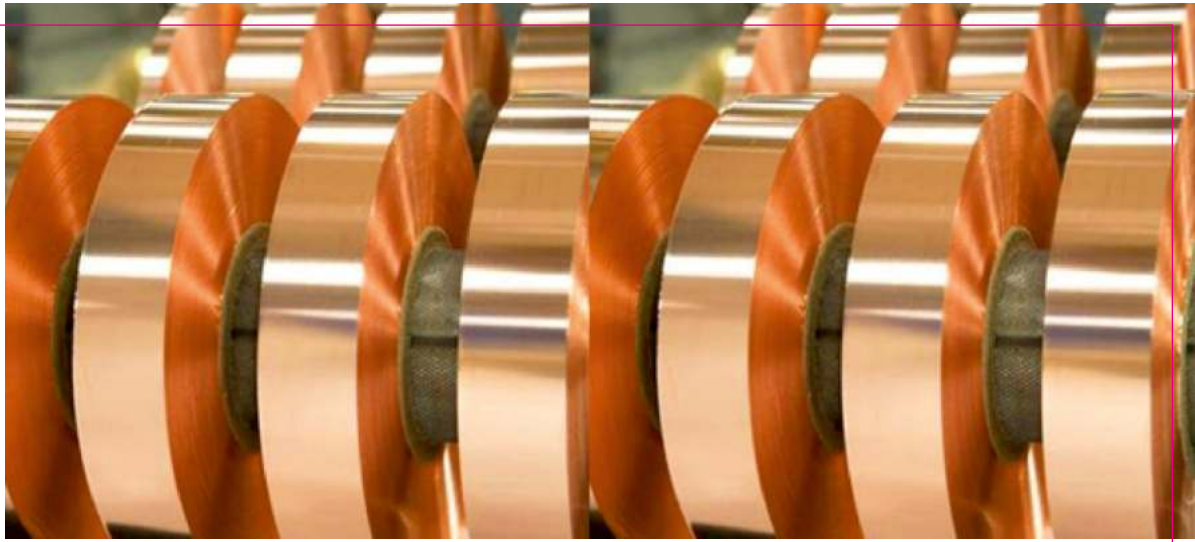
- ⊙ IS - Indian Standard
- ⊙ BS - British Standards
- ⊙ EN - European Nation Standards
- ⊙ ASTM - American Standards
- ⊙ AS - Australian Standards
- ⊙ JIS - Japanese Standards





**GCAL**

www.gcal.co.in



## COPPER ALLOY PRODUCTS

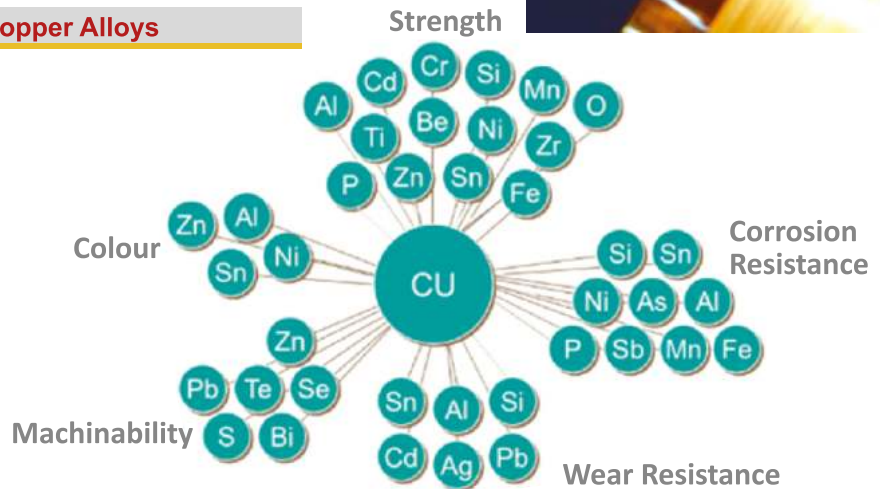
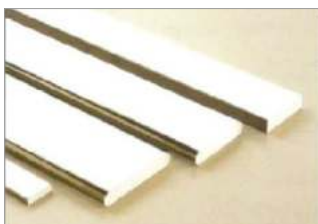
A variety of Copper Alloy Products, Customised as per Clients specifications so that our range is appropriately engineered for their usage. Thoroughly monitored till the delivery of the product, our range is acknowledged for its durability and resistance to abrasion.

### Copper Alloy Designations

- Unified Numbering System (UNS) Alloy Designations
- UNS System begun in 1974
- Originally only 3 numbers for an alloy
- Now C plus 5 numbers
- Wrought and Cast alloys are included
- CDA Administers UNS Copper Alloys Systems



### Copper Alloys



Copper Alloys	Materials	JIS	BS	CEN
	UNS (ASTM)			
Cu-ETP	C11000	C1100	C101	CW004A
Cu-OFCH	C10100	C1011	C102	CW009A
Cu-HCP	C10300	C1030	C103	CW021A
Cu-Fe2P	C19400	C1940	C194	CW107C
Cu-MgP	C15500	C1550	C155	-

- Silver Bearing Copper



**GCAL**

[www.gcal.co.in](http://www.gcal.co.in)



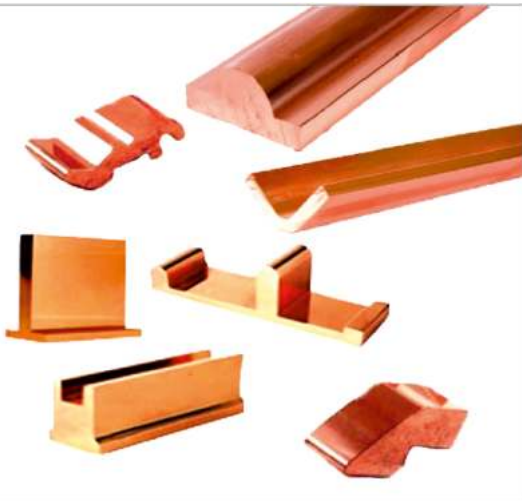
## COPPER PROFILES & SECTIONS

We are a Manufacturers and Suppliers of high quality Copper Sections, Copper Profile & similar products.

### TAILOR-MADE COPPER PROFILES AND SECTIONS

Copper Profiles / Sections are developed as per customer requirements and the design and development lead time is greatly minimized by having in-house tool room and CNC machines like EDMs, Milling and Lathes. We have developed profiles for Electrical Industries used in the stator winding assembly of submersible pumps. We also manufacture C-connectors in various shapes and sizes for the earthing requirements of utility companies,

We have a variety of Copper Profiles and Sections. Clients can provide their specifications so that our range is appropriately engineered for their usage. Thoroughly monitored till the delivery of the product, our range is acknowledged for its durability and resistance to abrasion.



### APPLICATIONS

- ❖ Electrical holders and clamps
- ❖ Automobiles and railways
- ❖ Transformers and circuit breaker terminals
- ❖ Wide range of uses in electrical industry, like switchgears, earthing rods and many more.
- ❖ Defense industries

