

# INDUSTRY **ROLLED** MATERIAL

# STRIPS OF COPPER AND COPPER ALLOYS

KME Germany GmbH COPPER DIVISION [GB]

ENGINEERING COPPER SOLUTIONS



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# COPPER PRODUCTS FROM KME

THE PRODUCT PORTFOLIO OF THE KME BUSINESS UNIT COPPER PRODUCTS. THE BEST OF EVERYTHING.

**KME** is one of the world's leading manufacturers of copper and copper alloy preliminary products and semi-finished products. The Copper Division of KME is the only manufacturer worldwide to offer sheets, strip, wire, bars and pipes from one source. Apart from a unique product variety in our major product groups, our three main sites in Fornaci di Barga (IT); Osnabrück (DE) and Hettstedt (DE) specialise in individual solutions for the industrial, construction and plant engineering sectors.

We excel around the globe as a partner in growth markets such as electromobility, energy, electronics and infrastructure thanks to the latest technologies and viable service concepts.



# COPPER AND COPPER ALLOY STRIPS

**KME** supplies preliminary strip as well as a wide range of finished strip including industrial strip, transformer strip, cable and HF cable strip, roofing strip and strip sheets.

All strip products are manufactured at KME's three main sites on technically well-established equipment. For example, the Conti-M<sup>®</sup> works at the Hettstedt site with a unique cast-rolling technology works without interruption by transferring metal melted from cathodes into a solid state via a twin-belt casting machine (Hazelett). From there it goes directly into the hot-rolling mill and continues on to become milled, hot-rolled strip. The Conti-M<sup>®</sup> process bypasses the conventional step of hot-rolling slabs, working instead continuously from liquid to solid state, thus tying up the first part of the process chain in an innovative way.

By choosing **KME** pre-rolled and finished strip, you are opting for high-quality products with clean, bright-rolled or milled surfaces that not only comply with all the main standards, but in some cases go even further.

# **PRELIMINARY** START WITH THE VERY BEST. PRELIMINARY STRIP FROM KME.

Preliminary rolled strip can be used in any industry and for numerous types of production. Our years of experience and the latest production technologies enable us to fulfil the most stringent quality demands. Preliminary rolling strip is the primary material for industrial, transformer and cable sheathing strip as well as strips and panels for architecture.





### TYPICAL AREAS OF USE

- Power Engineering
- Industrial, transformer and cable sheathing strip
- Building

### PACKAGING/DELIVERY

All **KME** products come in specially made, standard-compliant, secure packaging. This guarantees retention of shape, ensuring that a product's properties are preserved to the utmost after leaving the factory. Sea-freight packaging is something else we offer as standard. We can assess individual requirements provided they can be presented technically, and offer them for an extra charge.

# FACTS AND FIGURES

### DIMENSIONS AND ALLOYS

### DIMENSIONS, PRELIMINARY STRIP

MATERIAL	DIM	ENSIONS	SPEC. COIL WEIGHT	MINIMUM ORDER	
	Thickness in mm	Width in mm	in kg/mm BB	in t	
Standard-compliant copper	0.5 - 10* 155 - 1,250 5		5 - 6; 8 - 10; 11 - 12; 17 - 18	5 – 22	
Standard-compliant copper	0.6 > 6	0.6 > 6 1,070 o. 1,265 with natural edge		10 – 22	
Standard-compliant copper	15 – 16.5**	1,070 o. 1,265 with natural edge	11 - 12; 17 - 18	22 - 23	
Standard-compliant bronze	0.5 – 4*	100 – 700	11 - 13	4 - 10	
Standard-compliant bronze	for thicknesses > 1.5 < 4 mr	n the minimum width is 100 mm	11 - 13	4 - 10	
Standard-compliant bronze		4 mm are available r untrimmed rings	11 - 13	8 - 10	

\* rolled surface. \*\*milled surface.

### ALLOYS, COPPER

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER						
CEN	NR. (DIN)	ISO	ASTM	BS	AFNOR	JIS		
Cu-ETP/CW004A	2.0065	Cu-ETP	C11000	C101	Cu-a1	C1100		
Cu-PHC/CW020A Cu-HCP/CW021A	2.0070	Cu-PHC Cu-HCP	C10300	C103	Cu-c1	-		
Cu-DHP/CW024A	2.0090	Cu-DHP	C12200	C106	Cu-b1	C1220		
Cu-OF/CW008A	2.0040	Cu-OF	C10200	C103	Cu-c1	C1020		
Cu-OFE/CW009A	_	Cu-OFE	C10100	C110	Cu-c2	C1011		
Cu-DLP/CW023A	2.0076	Cu-DLP	C12000	_	Cu-b2	C1201		





### ALLOYS, BRONZE

MATERIAL CEN	MATERIAL	MATERIAL ABBREVIATION AS PER							
	NR. (DIN)	ISO	ASTM	BS	AFNOR	JIS			
CuSn4/CW450K	2.1016	CuSn4	C51100	PB 101	CuSn4P	C5111			
CuSn5/CW451K		CuSn5	C51000	PB 102	CuSn5P	C5102			
CuSn6/CW452K	2.1020	CuSn6	C51900	PB 103	CuSn6P	C5191			
CuSn8/CW453K	2.1030	CuSn8	C52100	PB 104	CuSn9P	C5212			



High-quality industrial strip made of different types of coppers and the copper materials bronze and brass as well as the high performance **STOL®** line of alloys, has excellent processing properties. It is very easy to punch, bend, deep-draw, mill, galvanise, fire-tin or weld, and is therefore used in various industrial sectors.

Many of the outstanding properties that copper and copper alloys possess are of great importance to our customers. Apart from the exceptional property combinations such as high stability, excellent electrical conductivity, superb bending properties and high relaxation resistance, these criteria also relate to processing in the highly complex production plants of our customers. It is here that straightness, evenness, cross-curvature and sag play a major role. These properties are not always included in standard products. If required we can adapt our products to your specifications.

We offer copper and copper alloy strips, bright and with high-quality tinning from one source according to your specifications. Please ask about our wide range of extremely high-performance **STOL®** materials for particularly challenging tasks.

# **INDUSTRY NEEDS IT.**

### TYPICAL FIELDS OF APPLICATION

- Automotive
- E-Mobility
- Electrical industry
- Electrical engineering
- Power supply
- Smart-Home applications

### PACKAGING/DELIVERY

All **KME** products come in specially made, standard-compliant, secure packaging. This guarantees retention of shape, ensuring that a product's properties are preserved to the utmost after leaving the factory. Sea-freight packaging is something else we offer as standard. We can assess individual requirements provided they can be presented technically, and offer them for an extra charge.

We supply in all standard sizes and, on request, in other specifications and materials.

FACTS AND FIGURES

### INDUSTRIAL DIMENSIONS

### **INDUSTRIAL STRIP**

10.0 - 12.0

15.0 - 16.0

0.06 - 0.075	> 0.075 - 0.25	> 0.25 - 0.5	> 0.5 - 0.8	> 0.8 - 1.0	> 1.5 - 6.0
-	x	x	-	-	-
_	x	x	x	x	x
x	x	x	x	x	x
x	x	x	x	х	х
x	x	х	х	х	х
_	_	_	x	х	х
x	x	-	-	-	-
x	x		_		
x	x	-	-	-	-
x	X		_		
x	x	x	-	-	-
x	X	X	X		
x	x	x	x	x	-
x	x	X	x	x	x
x	x	x	x	x	x
х	x	x	x	х	х
X	X	X	X	X	X
_	x	x	x	x	x
_		X	X	x	X
		-       X         -       X         X	-       X       X         -       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       -         X       X       -         X       X       -         X       X       -         X       X       -         X       X       -         X       X       -         X       X       -         X       X       -         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X	-       X       X       -         -       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         -       -       -       X         X       X       -       -         X       X       -       -         X       X       -       -         X       X       -       -         X       X       -       -         X       X       -       -         X       X       -       -         X       X       -       -         X       X       X       -         X       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         X       X       X       X         X       <	-       X       X       -       -         -       X       X       X       X       X         X       X       X       X       X       X         X       X       X       X       X       X         X       X       X       X       X       X         X       X       X       X       X       X         -       -       -       -       X       X         -       -       -       -       -       -         X       X       -       -       -       -         X       X       -       -       -       -         X       X       -       -       -       -         X       X       -       -       -       -         X       X       X       -       -       -         X       X       X       X       -       -         X       X       X       X       X       -         X       X       X       X       X       X       X         X       X       X       X       X

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KME supplies strip in every temper from deep drawing quality to spring hard compliant with EN 1652 and EN 1654, JIS, ASTM and others, both tempered and annealed to specific grain sizes. We can discuss deviations from standardised tempers with you. Our edges are cut with minimum of burr, re-rolled burr-free, or offered rounded with a non-defined edge radius. The geometry of our strips also complies with the aforementioned European standards and is agreed on contractually should you require any restrictions. Computerised surface inspection units are used to test our material for surface defects and screen out where necessary.

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INDUSTRIAL			TEI	MPER		
STRIP ALLOY	R220/w	R240/hh	R290/h	R360/h		
Cu-ETP	x	x	х	x	-	-
Cu-OF	x	x	х	x	-	_
Cu-DLP	x	x	x	x	-	-
Cu-DHP	x	x	x	x	-	-
Cu-PHC	x	x	x	x	-	-
Cu-HCP	x	x	X	x	_	
CuAg0,10	x	x	x	x	-	-
CuZn0,5	х	х	х	x	-	-
	w	hh	h	fh	dfh	
CuZn5	x	x	х	-	-	-
CuZn10	X	x	X		_	
CuZn15	x	x	х	x	-	-
CuZn28/30	х	х	х	х	-	-
CuZn33	x	x	x	x	-	-
CuZn36/37	x	x	X	x	x	
CuZn40	x	x	х	-	-	-
	w	hh	h	fh	dfh	eh
CuSn4	x	x	х	x	x	
CuSn5	x	x	x	x	x	x
CuSn6	x	x	х	x	x	x
CuSn8	x	x	х	x	x	x
CuNi10Fe1Mn	x	х	x	-	-	-
CuNi30Mn1Fe	x	x	х	_		-

w: soft; hh: half-hard; h: hard; fh: spring-tempered; dfh: double spring-tempered; eh: extra-hard. Other types on request.

### ALLOYS, COPPER

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER							
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS			
Cu-ETP/CW004A	2.0065	Cu-ETP	C11000	C101	Cu-a1	C1100			
Cu-PHC/CW020A Cu-HCP/CW021A	2.0070	Cu-PHC Cu-HCP	C 10300	C103	Cu-c1	-			
Cu-DHP/CW024A	2.0090	Cu-DHP	C12200	C106	Cu-b1	C1220			
Cu-OF/CW008A	2.0040	Cu-OF	C10200	C103	Cu-c1	C1020			
Cu-OFE/CW009A	_	Cu-OFE	C10100	C110	Cu-c2	C1011			
Cu-DLP/CW023A	2.0076	Cu-DLP	C12000	-	Cu-b2	C1201			

### LOW-ALLOYED WROUGHT COPPER ALLOYS

	MATERIAL	MATERIAL ABBREVIATION AS PER							
	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS			
CuAg0,1/CW013A	2.1203	-	C11600	-	_	-			
CuAg0,1P/ CW016A	2.1191	-	C11700	_	-	_			
CuZn0,5/ CW119C	2.0205	_	_	_	_	_			
CuSn0,15/CW117C	_	_	_	_	_	_			

### **COPPER-NICKEL ALLOYS**

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER							
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS			
CuNi10Fe1Mn/CW352H	2.0872	CuNi10Fe1Mn	C70600	CN102	-	CNP1			
CuNi30Mn1Fe/CW354H	2.0882	CuNi30Fe1Mn	C71520	CN107	_	-			

### **HIGH PERFORMANCE ALLOYS**

MATERIAL	MATERIAL		MATER	IAL ABBREVIATION	I AS PER	
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS
CuCrSiTi/STOL® 75	-	_	C18070	-	-	-
CuNiSi/STOL® 76	_	-	C19010	-	_	-
CuNiSiSnZn/ STOL® 76M	-	_	C19005	-	_	_
CuMg/STOL <sup>®</sup> 78	_	_	C18665	_	_	_
CuSn0,2/STOL® 80	_	_	C14410	_	_	_
CuNiSiSnZn/STOL® 94	_	_	C70315	_	-	-
CuCrZr/CW106C/ STOL® 95	-	-	C18160	-	_	-
CuFe2P/CW107C/ STOL <sup>®</sup> 194	2.1310	-	C19400	_	_	-
CuNi3Si	_		C70250		_	_
CuMgAgP	_	_	C15500	_	_	_

### ALLOYS, BRASS, LEAD-FREE

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER							
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS			
CuZn10/CW501L	2.0230	CuZn10	C22000	CZ 101	CuZn10	C2200			
CuZn15/CW502L	2.0240	CuZn15	C23000	CZ 102	CuZn15	C2300			
CuZn28/CW504L	2.0261	_	-	_	_	_			
CuZn30/CW505L	2.0265	CuZn30	C26000	CZ 105	CuZn30	C2600			
CuZn33/CW506L	2.0280	-	C26800	_	CuZn33	_			
CuZn36/CW507L	2.0335	-	C27000	CZ 107	CuZn36	_			
CuZn37/CW508L	2.0321	CuZn37	C27400	CZ 108	_	C2720			
CuZn40/CW509L	2.0360	CuZn40	C28000	CZ 109	CuZn40	C2801			

### ALLOYS, BRONZE

	MATERIAL	MATERIAL MATERIAL ABBREVIATION AS PER						
	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS		
CuSn4/CW450K	2.1016	CuSn4	C51100	-	CuSn4P	C5111		
CuSn5/CW451K	-	CuSn5	C51000	PB 102	CuSn5P	C5102		
CuSn6/CW452K	2.1020	CuSn6	C51900	PB 103	CuSn6P	C5191		
CuSn8/CW453K	2.1030	CuSn8	C52100	PB 104	CuSn9P	C5212		



# SHEETS FROM STRIP WORLDWIDE. COPPER AND COPPER ALLOYS FROM KME.

Our customers love **KME** strip sheet because it's so good for punching, bending, deep-drawing, milling, galvanising and welding. This product can adapt to almost anything. It possesses the perfect properties for perforated sheet, the production of stamped and bent parts, sealing rings, pressure containers, busbars for switching cabinets and countless other things. It's no wonder that copper and its alloys such as brass and bronze give rise to so many ideas – in practically every industry and field, be it arts and crafts, the electrical industry or machine-building.

### TYPISCHE ANWENDUNGSGEBIETE

- Mechanical engineering
- Electrical engineering
- Energy supply
- Off-shore facilities

### **DELIVERY & PACKAGING**

**KME** sheet from strip is available cold-rolled in copper, brass and bronze. It comes in lengths of up to 4 m, thicknesses between 0.5 mm and 10 mm and widths of up to 1220 mm (other dimensions on request). We always have at least three tonnes of the most common variants in stock, which you can call off at short notice.

All **KME** products come in specially made, standard-compliant, secure packaging. This guarantees retention of shape, ensuring that a product's properties are preserved to the utmost after leaving the factory. Sea-freight packaging is something else we offer as standard. We can assess individual requirements provided they can be presented technically, and offer them for an extra charge. We supply in all standard sizes and, on request, in other specifications and materials.

# FACTS AND FIGURES

### INDUSTRIAL DIMENSIONS

ALLOY	THICK- NESS		STRENGTH		VPE	
ALLOY	in mm	soft	halfhard	hard	UNIT	ALL
	0.50		х	x	500	
	0.80		x		500	
	1.00	х	х		500	
	1.50		х		1000	Cu-(
Cu-ETP.	2.00	х	x	x	500	EN1652/E 1000 x 20
EN 1652/EN13599	2.50	x	х		1000	1000,120
1000 x 2000 mm	3.00	х	х	х	500	
	4.00	x	x	x	1000	
	5.00	х	х	х	500	
	6.00		x		500	
	8.00		x		1000	
	10.00		х		500	
	0.90		х		500	
	1.00	x	x		500	
	1.50		x		500	
	2.00	x	x		500	
Cu-DHP. EN1652	2.50	х	х		500	
1000 x 2000 mm	3.00	x	x		500	
	4.00		х		500	
	5.00		Х		500	
	6.00		х		500	
	8.00		Х		500	

ALLOY	THICK-		VPE		
	NESS in mm	soft	halfhard	hard	UNIT
Cu-OF. EN1652/EN13599 1000 x 2000 mm	1.00		x		500
	1.50		х		500
	2.00		х		500
	3.00		х		500
	4.00		х		500
	5.00		х		500
	6.00		х		500
	10.00		х		500



### ALLOYS, COPPER

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER						
CEN	NO. (DIN)	150	ASTM	BS	AFNOR	JIS		
Cu-ETP/CW004A	2.0065	Cu-ETP	C11000	C101	Cu-a1	C1100		
Cu-PHC/CW 020 A Cu-HCP/CW 021 A	2.0070	Cu-PHC Cu-HCP	C10300	C103	Cu-c1	-		
Cu-DHP/CW 024 A	2.0090	Cu-DHP	C12200	C106	Cu-b1	C1220		
Cu-OF/CW 008 A	2.0040	Cu-OF	C10200	C103	Cu-c1	C1020		
Cu-OFE/CW 009 A	_	Cu-OFE	C10100	C110	Cu-c2	C1011		

Special alloys on request

### ALLOYS, BRASS

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER						
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS		
CuZn37/CW508L	2.0321	CuZn37	C27200	CZ 108	CuZn37	C2720		
CuZn10/CW501L	2.0230	CuZn10	C22000	CZ 101	CuZn10	C2220		
CuZn15/CW502L	2.0240	CuZn15	C23000	CZ 102	CuZn15	C2300		
CuZn30/CW505L	2.0265	CuZn30	C26000	CZ 106	CuZn30	C2600		
CuZn40/CW509L	2.0360	CuZn40	C28000	CZ 109	CuZn40	C2801		

### ALLOYS, BRONZE

MATERIAL	MATERIAL	L MATERIAL ABBREVIATION AS PER						
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS		
CuSn6/CW452K	2.1020	CuSn6	C51900	PB 103	CuSn6P	C5191		
CuSn8/CW453K	2.1030	CuSn8	C52100	PB 104	CuSn9P	C5212		

Other alloys on request



# **CABLE STRIP**(HF) WE'RE ROLLING OUT THE FUTURE – AS BROADLY AS POSSIBLE.

Copper possesses especially high electrical and thermal conductivity. It also has unusually good corrosion resistance. That's why it is used increasingly in complex urban, rural and maritime infrastructural projects. Global connectivity is bringing the fields of telecommunications, high-frequency technology and power transmission closely together.

It is crucial to eliminate periodical thickness fluctuations when making highfrequency cables. Specialised rolling and passing sequences on our rolling mills and a maintenance management system on our production facilities which is tailored to the production of high-frequency strips enable us to make extremely precise strips at lengths of up to 6,500 metres. Computerised FFT analysis on the finished strip helps us guarantee strips with the very best transmission properties



### TYPICAL AREAS OF USE

- Electrical engineering
- Power engineering
- IT
- Construction

### PACKAGING/DELIVERY

All **KME** products come in specially made, standard-compliant, secure packaging. This guarantees retention of shape, ensuring that a product's properties are preserved to the utmost after leaving the factory. Sea-freight packaging is something else we offer as standard. We can assess individual requirements provided they can be presented technically, and offer them for an extra charge.

# FACTS AND FIGURES

DIMENSIONS AND ALLOYS

### DIMENSIONS, CABLE STRIP/HF STRIP

DIMEN	ISIONS	SPEC. COIL WEIGHT			MINIMUM ORDER
Thickness (mm)	Width (mm)	Туре	Thickness range (mm)	Spec. coil weight in kg/mm BB	(t)
Cable strip: 0.07 – 0.3	Cable strip: 10 – 330 (360)	Cable strip	0.07 – 0.19	1-2	2
Cable strip: 0.07 – 0.3	Cable strip: 10 – 330 (360)	Cable strip	0.2 - 0.3	1 - 1.5; 2 - 3; 5 - 6	2
HF strip: 0.15 – 0.50	HF strip: 20 – 200	HF strip	0.15 – 0.50	RG/length on request	4
	Thickness (mm) Cable strip: 0.07 - 0.3 Cable strip: 0.07 - 0.3 HF strip:	(mm)         (mm)           Cable strip: 0.07 - 0.3         Cable strip: 10 - 330 (360)           Cable strip: 0.07 - 0.3         Cable strip: 10 - 330 (360)           HF strip:         HF strip:	Thickness (mm)Width (mm)TypeCable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable stripCable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable stripHF strip:HF strip: HF strip:HE strip	Thickness (mm)Width (mm)TypeThickness range (mm)Cable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable strip0.07 - 0.19Cable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable strip0.2 - 0.3HF strip:HF strip: HF strip:HE strip HF strip0.15 - 0.50	Thickness (mm)Width (mm)TypeThickness range (mm)Spec. coil weight in kg/mm BBCable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable strip0.07 - 0.191 - 2Cable strip: 0.07 - 0.3Cable strip: 10 - 330 (360)Cable strip0.2 - 0.31 - 1.5; 2 - 3; 5 - 6HF strip:HF strip:HE strip0.15 - 0.50BG/length on request

### ALLOYS, COPPER

MATERIAL	MATERIAL	MATERIAL ABBREVIATION AS PER					
CEN	NO. (DIN)	ISO	ASTM	BS	AFNOR	JIS	
Cu-ETP/CW004A	2.0065	Cu-ETP	C11000	C101	Cu-a1	C1100	
Cu-PHC/CW020A Cu-HCP/CW021A	2.0070	Cu-PHC Cu-HCP	C10300	C103	Cu-c1	-	
Cu-OF/CW008A	2.0040	Cu-OF	C10200	C103	Cu-c1	C1020	
Cu-OFE/CW009A	_	Cu-OFE	C10100	C110	Cu-c2	C1011	
Cu-DLP/CW023A	2.0076	Cu-DLP	C12000	_	Cu-b2	C1201	





Setting up the Fröhlingschere. The gloves play a double role: they protect the hands against injury on the sharp edges, and they protect the material against fingerprints.

# **INTERNATIONAL STANDARDS**

### KME INDUSTRIAL ROLLED PRODUCTS ARE MANUFACTURED IN COMPLIANCE WITH THE MAIN INTERNATIONAL STANDARDS.

### BELOW IS A LIST OF THE STANDARDS TO WHICH ALL OUR INDUSTRIAL ROLLED PRODUCTS REFER.

DIN EN 10002-1	Metallic materials. Tensile testing
DIN EN ISO 9001	Quality management systems - requirements
DIN EN 10204	Metallic products - types of inspection documents
DIN EN 1172 BS EN 1172	Strips and sheets for the building industry
DIN EN 1652 BS EN 1652 NF EN 1652	Plates, sheets, strips and discs for general purposes
DIN EN 1653 BS EN 1653 NF EN 1653	Plates, sheets and discs for boilers, pressure vessels and hot water storage systems
DIN EN 1654 BS EN 1654	Strips for springs and connectors
DIN EN 13599 BS EN 13599 NF EN 13599	Copper plates, sheets and strips for use in electrical engineering
ASTM-F68	Oxygen-free copper in wrought forms for electron devices
ASTM-B-152 ASME-SB-152	Copper sheet, strip, plate and rolled bar
ASTM-B-171 ASME-SB-171	Copper-Alloy plate and sheet for pressure vessels, condensers and heat exchangers
ASTM-B-370	Copper sheet and strip for building construction
ASTM-B-888	Copper-Alloy Strip for use in manufacture of electrical connectors or spring contacts
JIS H 3100	Copper and copper alloys sheets, plates and strips
JIS H 3110	Phosphor bronze and nickel silver sheets, plates and strips
JIS H 3130	Copper beryllium alloy, copper titanium alloy, phosphor bronze, copper-nickel-tin alloy and nickel silver sheets, plates and strips for springs





# SERVICE CENTER

The **KME** service centers for rolled copper offer customers in an accessible distance the possibility to deliver lower volumes in a short lead time. An additional galavanic surface treating of copper and copper alloy strips is offererd by the service center situated in Besancon.

### **KME Rolled France SAS**

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