

ENGINEERED TO TOLERANCE
ROLLED TO PERFECTION



**PRECISION ROLLED
COPPER & BRASS**

Coils, Foils, Sheets, Strips, Plates & Circles

www.meicopper.com

ABOUT US

METALS YOU CAN RELY ON, QUALITY YOU CAN TRUST

For over five decades, Mittal Engineering Industries has been one of India's most trusted names in precision copper and brass rolled products. Founded in 1975 by Mr. R.S. Mittal in Jagadhri, Haryana — the heart of India's non-ferrous metals belt — the company began its journey under the name Azad Dhatu before evolving into Mittal Engineering Industries in 1998. Today, MEI stands as a fully integrated rolling mill with a manufacturing footprint of 20,000 sq. metres, an installed capacity of 18,000 MTPA, and a customer base spanning 700+ businesses across India and beyond.

At MEI, precision is not a promise — it is a process. From scrap melting and alloy casting to multi-stage cold rolling and surface finishing, every step of production is controlled in-house across two dedicated plants: the Coil Plant and the Sheet Plant. This end-to-end integration gives us complete command over metallurgical consistency, dimensional accuracy, and surface quality across our full product range — available in 18+ carefully developed alloy grades to meet the exacting demands of automotive, electrical, defence, plumbing, handicrafts, and engineering industries.

Our products cover one of the widest size ranges in the industry:

Coils & Foils — 0.04 to 3.00 mm thickness, up to 406 mm wide

Sheets — 0.10 to 6.00 mm thickness, up to 1250 mm wide, up to 2500 mm length

Circles — 0.20 to 50.00 mm thickness, 20 to 1250 mm diameter

Plates — 6.00 to 80.00 mm thickness, up to 1250 mm wide, up to 2500 mm length

Our commitment to quality is backed by ISO 9001:2015, ISO 14001:2015, and BIS certifications — because delivering metals you can rely on and quality you can trust is not just our tagline, it is the standard we hold ourselves to every day. Whether you are a domestic trader, a precision component manufacturer, or an international buyer seeking a dependable long-term supply partner, MEI brings the metallurgical expertise, production depth, and consistency that modern industry demands.



OUR MISSION

To exceed our customer's expectations in quality, delivery and cost through continuous innovation and technology up-gradation.

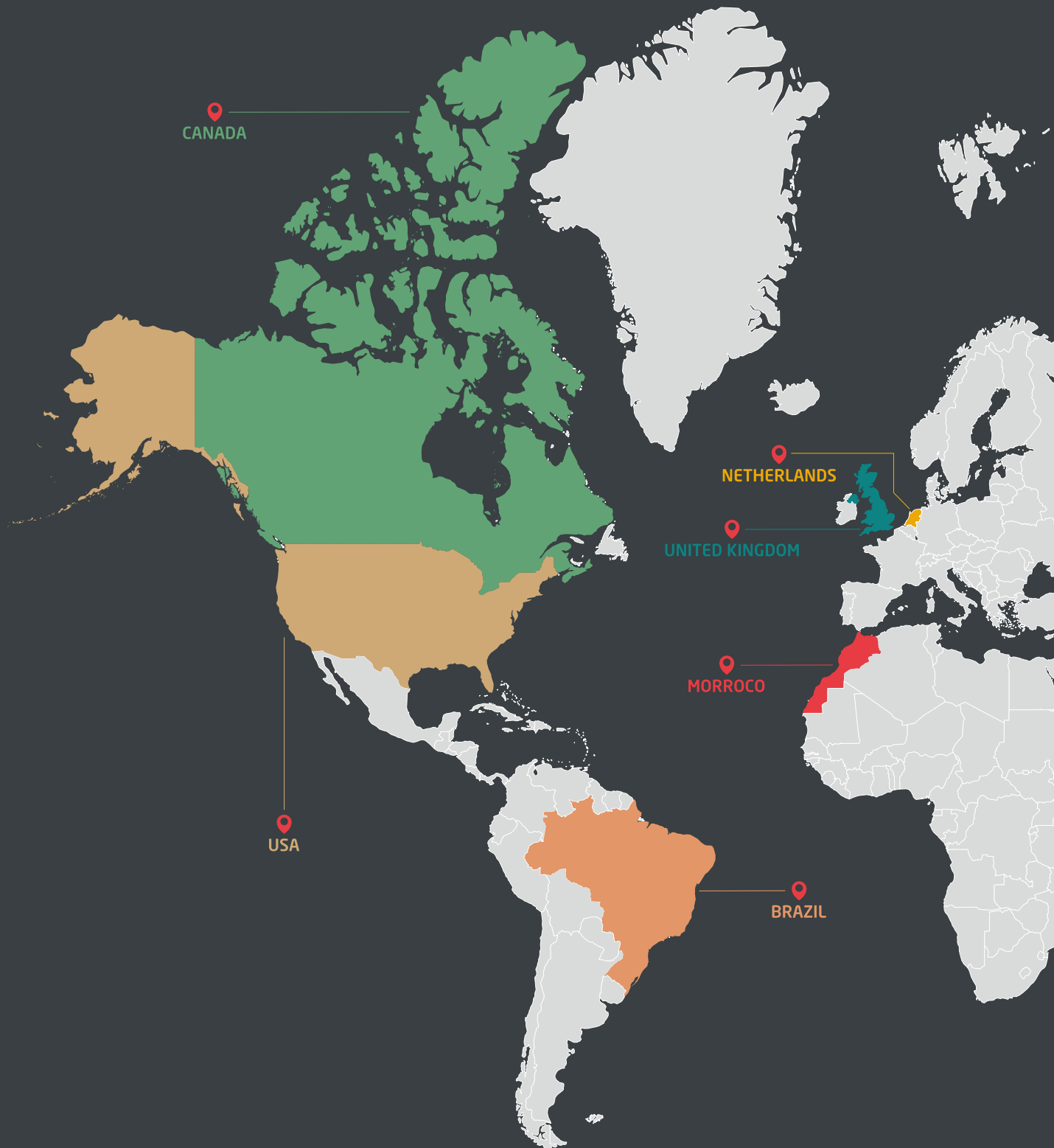


OUR VISION

To be a world class company in the sphere of non ferrous semis and to create value for all its customers with a passion for excellence.

GLOBAL PRESENCE

From our integrated manufacturing facility in India, MEI Copper exports precision-engineered copper and brass products to markets across South Asia, Southeast Asia, the Middle East, and Africa. Our products currently reach Sri Lanka, Nepal, Bangladesh, Vietnam, Indonesia, the UAE, Iran, and Morocco — a testament to the trust placed in MEI's quality by manufacturers, OEMs, and traders across diverse geographies.



**TRUSTED
BY**

Backed by ISO 9001:2015 and ISO 14001:2015 certifications, our strips, coils, sheets, and specialty alloys consistently meet the standards demanded by international buyers, delivering the reliability of a large-scale Indian producer with the flexibility of a dedicated supply partner.



IS 1897:2008



CM/L No. 9100207004

IS 410:1977



CM/L No. 9100206810

QUALITY ASSURANCE

Mittal Engineering Industries is ISO 9001:2015, ISO 14001:2015 and BIS certified, reflecting our commitment to consistent quality management and environmentally responsible manufacturing.

Every product we deliver passes through a rigorous, in-house quality control system before it reaches you. This gives our customers confidence in internationally acceptable standards at every stage of production, backed by a culture of continuous process improvement.



Digital
Hardness Tester



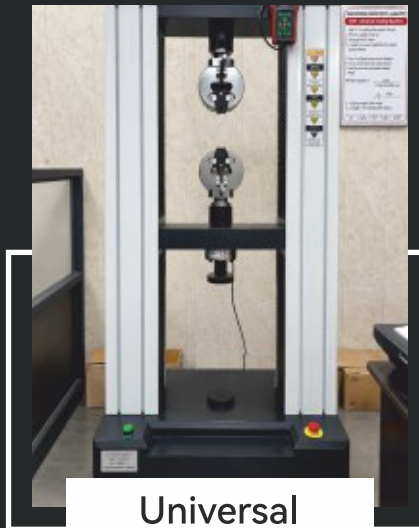
Ericsson
Cupping Machine



Grain Tester
Microscope



Spectrometer



Universal
Tensile Tester



Vickers
Hardness Tester

Our in-house testing facility allows our Quality Analysts to inspect the entire product range using precision equipment, including:

This combination of certified processes and advanced testing infrastructure ensures every coil, sheet, strip, and plate leaving our facility meets the highest benchmarks of quality — delivered at market-leading prices.

OUR INFRA STRUC TURE

Spread across an expansive 20,000 sq. metre integrated manufacturing campus, Mittal Engineering Industries operates two dedicated production plants — the Coil Plant and the Sheet Plant — equipped with state-of-the-art machinery across every stage of the value chain.

The Coil Plant supports dual casting routes: scrap is melted in an Induction Melting Furnace and cast either via Horizontal Continuous Casting directly into coil form, or via DC Chill (vertical) Casting into slab, the latter being reheated in a Gas Fired Reheating Furnace and passed through a Hot Rolling Mill before entering the common rolling sequence. From this point, all material passes through the Breakdown 4Hi Rolling Mill for initial thickness reduction, followed by Bell Annealing to soften the strip, Scalping to machine off surface roughness, a second Breakdown Rolling pass, and another Bell Annealing cycle to prepare the coil for finishing. A Pickling Machine then removes oxides before the material is progressively rolled to final gauge on the Finish Rolling Mill and AGC Foil Rolling Mill, with an Electric Bell Annealing Furnace applied between passes to achieve the precise temper required. A Slitting to Strip Line converts finished coils into customer-specified widths, with every coil passing through rigorous quality control before warehousing.

The Sheet Plant operates across two parallel input routes — either billets cast in-house through an Induction Melting Furnace and Billet Caster, or coil fed directly from the Coil Plant — both converging at an Oil Fired Reheating Furnace before hot rolling in 5–6 passes on the Hot Rolling Mill down to 16 mm. The rolled surface is then conditioned on a Scalping Machine, softened in an Electric Boggie Heating Furnace, and cold rolled to final gauge through a combination of 2Hi, 3Hi, and 4Hi Cold Rolling Mills. Intermediate and final annealing cycles, followed by Pickling, ensure the correct temper and surface quality before sheets are cut to length on the Shearing Line, slit to width, inspected, and dispatched. This fully integrated, end-to-end infrastructure enables MEI to maintain complete process control and consistent quality across its entire range of copper and brass coils, foils, strips, sheets, circles, and plates.

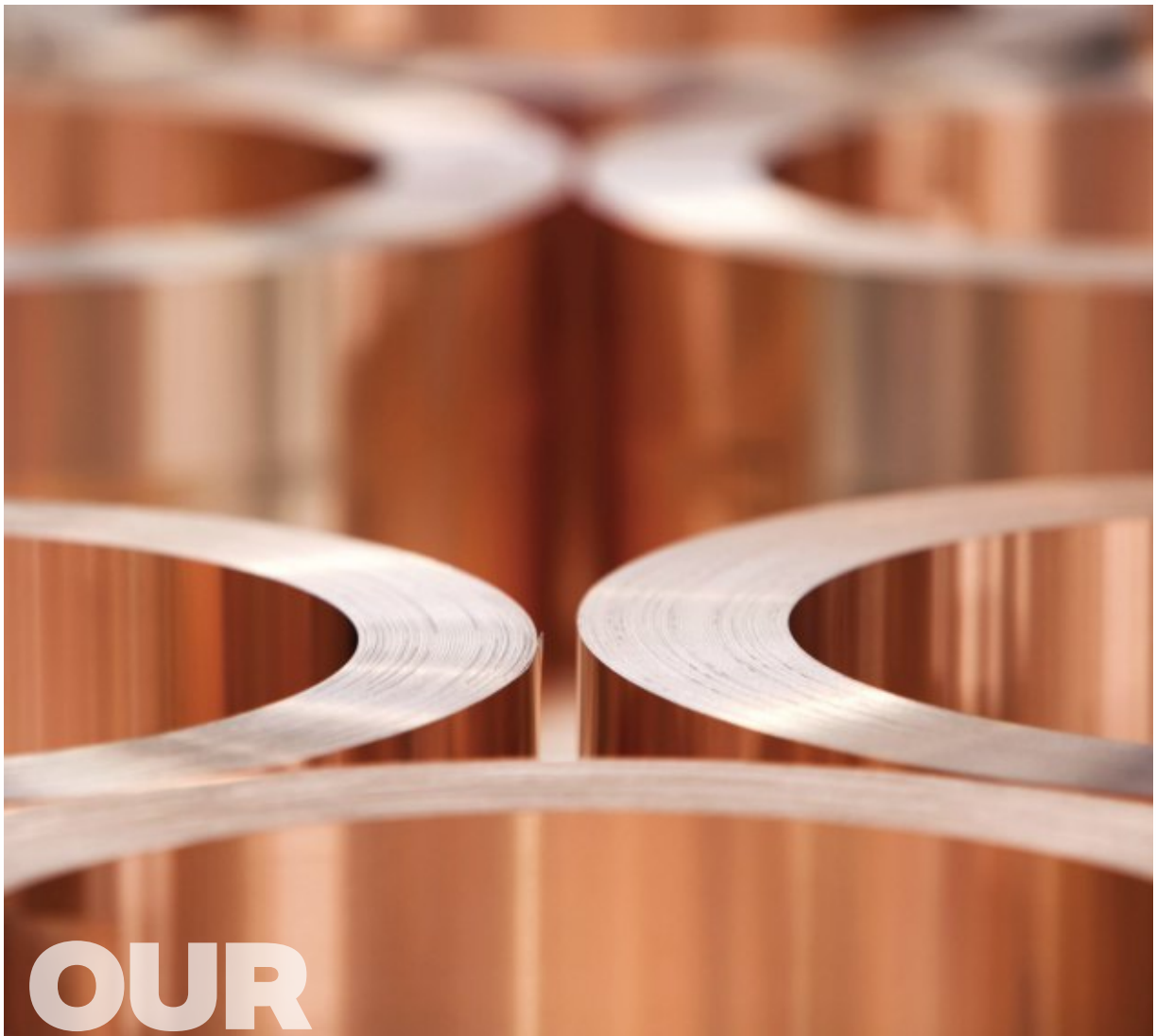
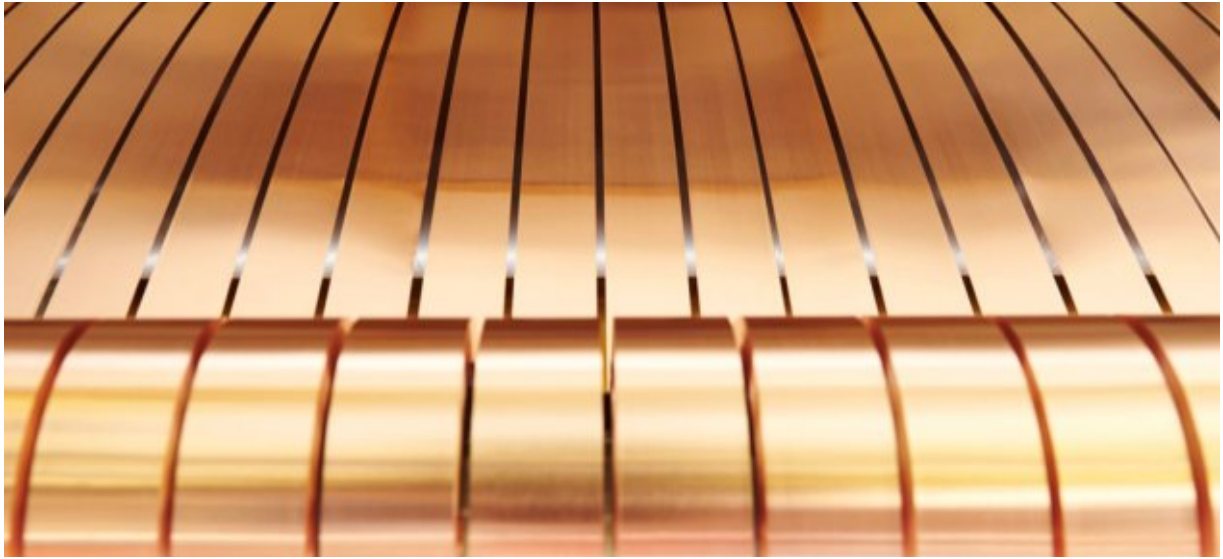
ENVIRONMENTAL POLICY

At MEI, sustainability is not an afterthought — it is built into every stage of our operations. Certified to ISO 14001:2015, we are committed to responsible manufacturing that minimises our environmental footprint while delivering world-class quality. Our facility runs partly on solar energy, significantly reducing our dependence on conventional power and lowering carbon emissions.

We operate a closed-loop water management system with full wastewater recycling, working towards zero liquid discharge across our plant. One of our core operational principles is 100% scrap recycling — every offcut, trimming, and process remnant is reclaimed and reintroduced into our melting cycle, ensuring zero material wastage.

From responsibly sourced raw materials to clean and efficient production processes, MEI Copper is dedicated to a greener future for the metals industry — because we believe that sustainable manufacturing and superior product quality go hand in hand.





OUR PRODUCTS RANGE

Brass & Copper Products

BRASS CIRCLE

Precision-blanked brass circles for deep drawing, spinning and pressing. Supplied in 70/30 (CuZn30) for deep-drawn components and 63/37 and 65/35 grades for general pressing, in fully annealed to hard tempers with controlled grain size for crack-free forming. Available from 0.20 to 50.00 mm thickness and 20 to 1250 mm diameter, with deburred edges and consistent flatness. Widely used for utensils, pressure cookers, lamp caps, cartridge cases, bells, decorative ware and pressed hardware.



BRASS COIL

Cold rolled brass coils produced on 4Hi and AGC mills to tight gauge tolerance for high-speed stamping, forming and progressive-die presses. Available in 63/37, 65/35 and 70/30 grades, 0.04 to 3.00 mm thick and up to 406 mm wide, in annealed, quarter hard, half hard, hard, extra hard and spring tempers. Manufactured under BIS licence to IS 410 with pickled or mill-finish surfaces. Used for radiator fins and tubes, zip fasteners, electrical terminals, hardware, ammunition components and handicrafts.



NAVAL BRASS SHEET & PLATE

Naval brass (CuZn39Sn1 / C46400) contains about 1% tin, which gives it strong resistance to dezincification and corrosion in seawater and brackish environments, along with good strength and machinability. We supply it as sheet from 0.10 to 6.00 mm and plate from 6.00 to 80.00 mm, in widths up to 1300 mm and lengths up to 2500 mm, cut to size on request. Manufactured to IS 410 / ASTM B171 requirements with in-house spectrometer verification of composition.

It is used to manufacture marine hardware and ship fittings, condenser and heat exchanger tube plates, valve stems and pump components, propeller shafts and bushings, defence and naval equipment, and architectural fittings for coastal installations.



BRASS SHEET



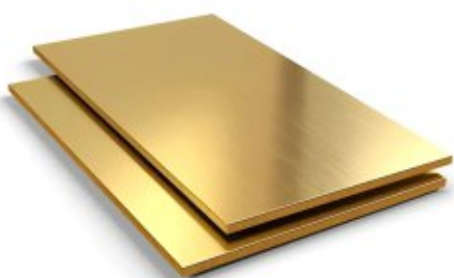
Cold and hot rolled brass sheets in 60/40, 63/37, 65/35 and 70/30 grades, from 0.10 to 6.00 mm thick, up to 1250 mm wide and 2500 mm long. Cold rolled sheets are supplied in annealed to hard tempers with a bright pickled surface and close thickness tolerance, ideal for drawing, spinning, polishing and plating. Heavier gauges are hot rolled, scalped and annealed for good flatness and machinability.

All sheets are produced under BIS licence to IS 410 and tested in-house for composition, hardness and grain size. Applications include utensils and kitchenware, radiators and heat exchangers, electrical hardware, locks, bath fittings, architectural and decorative panels, musical instruments, nameplates and handicrafts.

BRASS STRIP

Precision-slit brass strip in 60/40, 63/37, 65/35 and 70/30 grades, from 0.04 to 3.00 mm thick, slit to customer-specified widths with clean, burr-free edges and tight width tolerance. Available in annealed, half hard, hard, extra hard and spring tempers; 70/30 spring-temper strip is specifically developed for spring and contact applications. Produced under BIS licence to IS 410.

Every coil is rolled to uniform gauge with controlled grain size for consistent forming, and narrow widths and small coil weights can be supplied on request. Our brass strip is used in springs and contacts, electrical terminals and connectors, zip fasteners, flashlight and lamp components, electronic components, and handicraft and decorative trims.

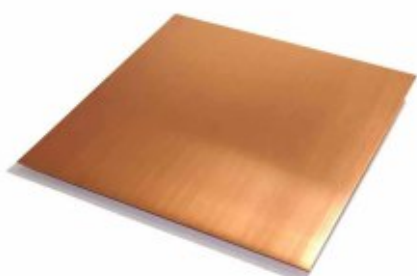


BRASS PLATE

Hot rolled brass plates in 63/37, 60/40 (Muntz metal) and 70/30 grades, from 6.00 to 80.00 mm thick, up to 1300 mm wide and 2500 mm long, cut to size on request. Plates are scalped after hot rolling and annealed to relieve stress, giving a flat, machinable stock with sound internal structure verified by in-house testing. Used for machined components, dies and mould plates, gears and bushings, valve bodies, bearing plates, heavy hardware, architectural and ornamental work.

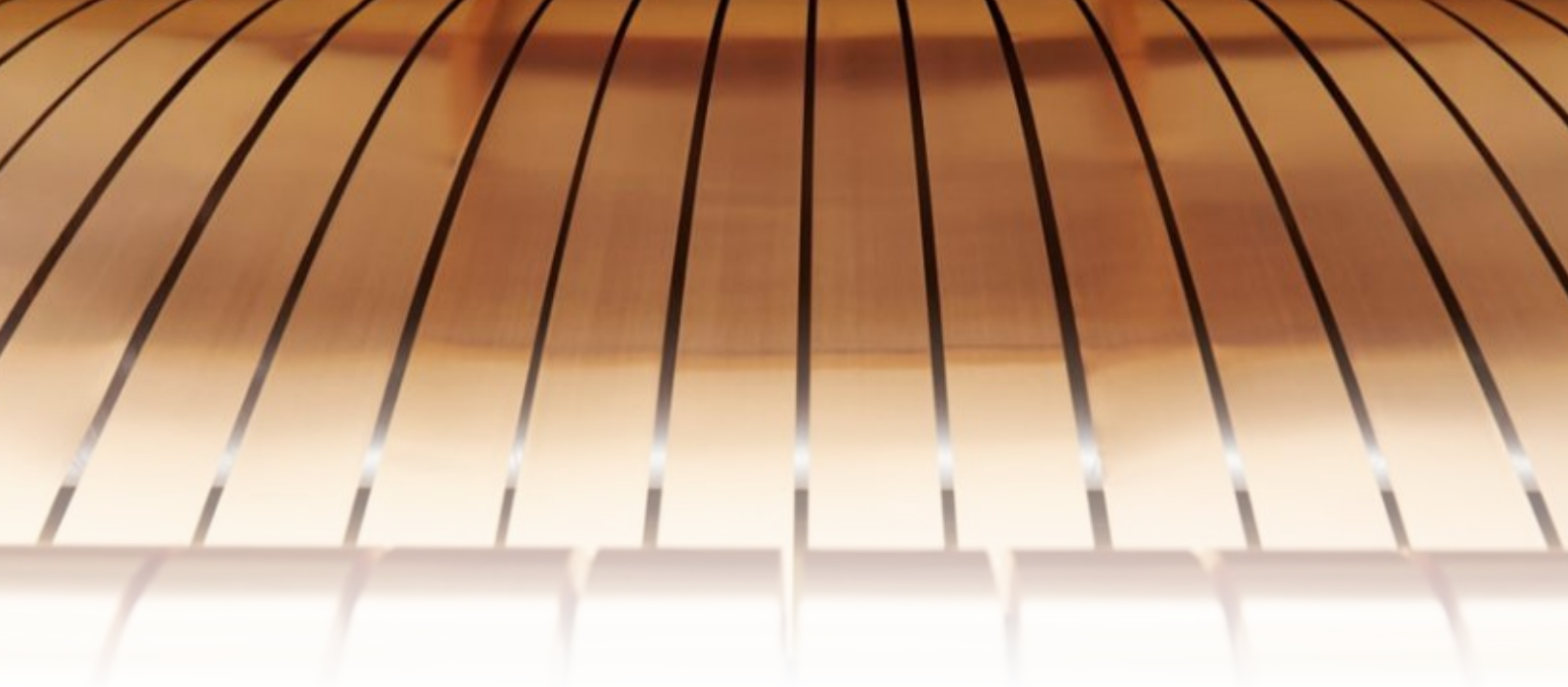
LEADED BRASS PLATE

Free-machining brass plates (CuZn39Pb2 / CuZn39Pb3, C38500 / C35300) with 1.5 to 3.5% lead, which breaks chips during machining for high cutting speeds, low tool wear and excellent surface finish. Available from 6.00 to 80.00 mm thick, up to 1300 mm wide and 2500 mm long. Ideal for turned and milled components, valves and taps, bath fittings, gears, instrument parts, engraving plates and nameplates.



COPPER PLATE

Hot rolled copper plates in ETP and DHP grades, from 6.00 to 80.00 mm thick, up to 1300 mm wide and 2500 mm long, supplied scalped and annealed with cut-to-size options. High purity and conductivity make them suitable for welding electrodes and backing bars, busbars, earthing plates, mould and cooling plates, heat sinks and heavy electrical fabrication.



COPPER STRIP

Electrical-grade copper strip in ETP (C11000) and DHP (C12200), slit from precision-rolled coil in 0.04 to 3.00 mm thickness and customer-specified widths. Supplied in annealed to hard tempers with conductivity of 100% IACS or higher and clean slit edges, certified to IS 1897. Used for busbars, transformer and inductor windings, earthing and lightning-protection strip, flexible braided connectors, switchgear, cable sheathing and PCB applications.



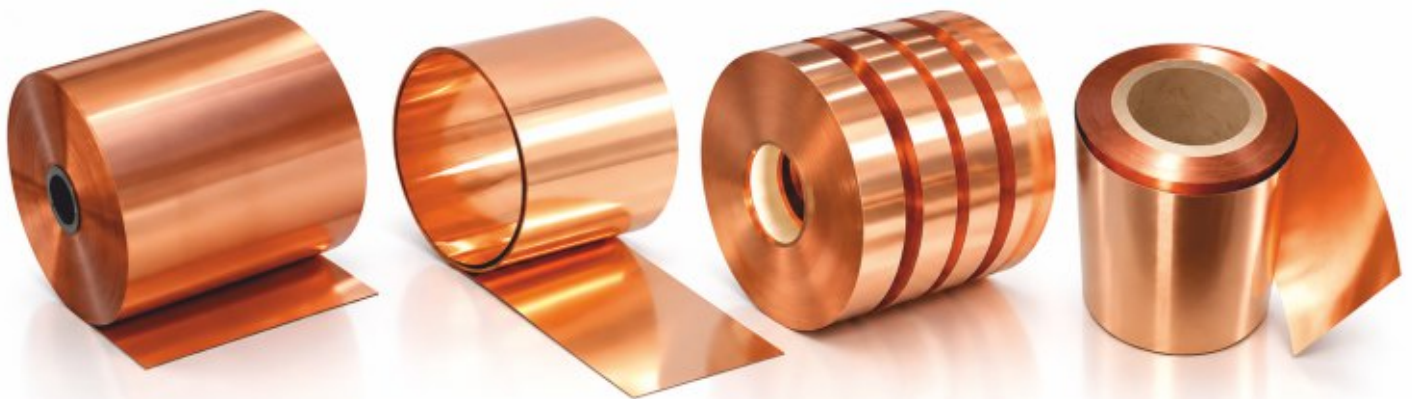
COPPER CIRCLE

Copper circles blanked from ETP (C11000) and DHP (C12200) grades, from 0.20 to 50.00 mm thick and 20 to 1500 mm diameter, supplied annealed for deep drawing or in harder tempers as required. High purity ($\geq 99.90\%$ Cu) ensures excellent thermal conductivity and a clean, uniform surface for polishing and plating. Used for bottom-cladding of stainless steel cookware, copper utensils and vessels, water heater and solar components, electrical contact discs, gaskets, lamps and handicrafts.



COPPER COIL

Copper coils in electrolytic tough pitch (ETP / C11000, $\geq 99.90\%$ Cu) for electrical applications, with conductivity of 100% IACS or higher, and deoxidised high-phosphorus (DHP / C12200) for brazed and plumbing applications. Rolled from 0.04 to 3.00 mm thickness and up to 406 mm width in annealed to hard tempers, with BIS certification to IS 1897 for electrical-grade strip. Used in transformer and motor windings, busbar and earthing strip, radiators and heat exchangers, flexible connectors, cable components, PCB and electronics, and roofing.



COPPER SHEET

Cold and hot rolled copper sheets in ETP and DHP grades, from 0.10 to 6.00 mm thick, up to 1500 mm wide and 2500 mm long, available annealed, half hard or hard. Cold rolled sheets offer close gauge control and a bright finish for forming, spinning and fabrication; hot rolled sheets are supplied scalped and annealed for heavier work. Every sheet is verified for composition on our spectrometer and for mechanical properties before dispatch. Applications include earthing plates, roofing and cladding, heat exchangers and condensers, chemical and pharmaceutical vessels, distillation equipment, cookware, electrical fabrication and decorative work.



CHEMICAL COMPOSITION

All values in Weight %

Grade	Alloy / Common Name	Cu (%)	Zn (%)	Pb (%)	Sn (%)	P (%)	Fe (%)	Ni (%)	Notes
BRASS ALLOYS									
MEI-60	60/40 Muntz Metal	59.00–61.00	Rem.	≤0.100	–	–	≤0.070	≤0.100	–
MEI-63	63/37 Yellow Brass	62.00–64.00	Rem.	≤0.050	–	–	≤0.050	≤0.100	–
MEI-63L	63/37 Lead-free Brass	62.00–64.00	Rem.	≤0.005	–	–	≤0.010	≤0.010	Pb ≤50 ppm
MEI-65	65/35 Yellow Brass	64.00–66.00	Rem.	≤0.050	–	–	≤0.050	≤0.100	–
MEI-70	70/30 Cartridge Brass	69.00–71.00	Rem.	≤0.050	–	–	≤0.050	≤0.100	–
MEI-80	80/20 Low Brass	79.00–81.00	Rem.	≤0.030	–	–	≤0.050	≤0.100	–
MEI-85	85/15 Red Brass	84.00–86.00	Rem.	≤0.050	–	–	≤0.050	≤0.100	–
MEI-90	90/10 Commercial Bronze	89.00–91.00	Rem.	≤0.020	–	–	≤0.050	≤0.100	–
MEI-95	95/05 Gilding Metal	94.00–96.00	Rem.	≤0.020	–	–	≤0.050	≤0.100	–
SPECIAL BRASS									
MEI-59	Leaded Brass Free-Machining	58.00–62.00	Rem.	1.0–2.0	–	–	≤0.200	≤0.300	–
MEI-58	Leaded Muntz Metal	58.00–61.00	Rem.	0.25–0.70	≤0.25	–	≤0.150	–	–
MEI-62	Naval Brass Grade 1	61.00–63.50	Rem.	≤0.200	1.00–1.50	–	≤0.100	–	–
MEI-61	Naval Brass Grade 2	59.00–62.00	Rem.	≤0.200	0.50–1.00	–	≤0.100	–	–
COPPER GRADES									
MEI-115	Commercial Copper	Rem.	0.1–1.0	–	–	≤0.02	–	–	Other ≤0.10%
MEI-110	ETP Electrolytic Tough Pitch	≥99.90	–	Trace	–	–	–	–	O: 0.005–0.040%
MEI-120	DLP Deox. Low Phosphorus	≥99.90	–	Trace	–	0.005–0.013	–	–	Cu+P ≥99.90%
MEI-122	DHP Deox. High Phosphorus	≥99.90	–	Trace	–	0.015–0.040	–	–	Cu+P ≥99.90%
MEI-144	TBC Tin-Bearing Copper	≥99.500	–	≤0.020	0.070–0.200	0.015–0.045	–	–	–

Note: All compositions are nominal ranges per ASTM / EN / IS specification. Minor impurity limits not fully listed — refer to material test certificate for full certified analysis. Lead-free Brass (MEI-63L) certified Pb ≤ 50 ppm per RoHS / drinking water compliance.

Old Bilaspur Road, Jagadhri – 135003 (Haryana) • www.meicopper.com

Rem = Remainder • max = maximum limit • Per ASTM / EN / IS specification • Rev. May 2026

STANDARDS CONFORMANCE

BRASS & COPPER ALLOYS						
ALLOY	INDIA IS	JAPAN JIS	GERMAN DIN	ISO	USA ASTM	UK BS
60/40 Muntz Metal	IS 422	C2801	CuZn40	CuZn40	C28000	CZ109
63/37 Yellow Brass	IS 410	C2720	CuZn37	CuZn37	C27200	CZ108
65/35 High Brass	IS 410	C2680	CuZn35	CuZn35	C27000	CZ107
70/30 Cartridge Brass	IS 410	C2600	CuZn30	CuZn30	C26000	CZ106
80/20 Low Brass	—	C2400	CuZn20	CuZn20	C24000	CZ103
85/15 Red Brass	—	C2300	CuZn15	CuZn15	C23000	CZ102
90/10 Commercial Bronze	IS 2768	C2200	CuZn10	CuZn10	C22000	CZ101
95/05 Gilding Metal	IS 3167	C2100	CuZn5	CuZn5	C21000	CZ125
Leaded Brass Free-Machining	IS 319	C3771	CuZn39Pb2	CuZn39Pb2	C37700	CZ120
Leaded Muntz Brass	IS 12443	C3650	—	CuZn40Pb	C36500	CZ119
Lead-free Brass	IS 410	C2720	CuZn37	CuZn37	C27200	CZ108
Naval Brass Grade 1	IS 291	—	—	CuZn36Sn1	—	CZ112
Naval Brass Grade 2	IS 291	C4640	—	CuZn39Sn	C46400	—
ETP Electrolytic Tough Pitch	IS 191/1897	C1100	E-Cu 58	Cu ETP	C11000	C101
DLP Deox. Low Phosphorus	IS 191	C1201	SW-Cu	Cu-DLP	C12000	—
DHP Deox. High Phosphorus	IS 191/14811	C1220	—	Cu DHP	C12200	C106
TBC Tin-Bearing Copper	IS 3331	—	CuSn0.5	Cu TBC	C14410	—

APPLICATION BY GRADE

GRADE / ALLOY	APPLICATIONS
ETP	Electrical Conductors, Contact Parts, XLPE Cables, Bus Bars, Earthing Strips & Transformers etc.
DHP	Gaskets, Domestic Appliances, Air Conditioning Systems, Plumbing Tubes & Fittings, Refrigeration Coils etc.
DLP	Welding Rods & Brazing Wire, Refrigeration & Air Conditioning Tubing, Gas Welding Applications, Heat Exchanger Tubes, Plumbing Fittings etc.
TBC	Automobiles Radiators, Heat Exchangers etc.
Commercial	General Fabrication, Roofing Sheets, Architectural Cladding, Decorative Items, General Engineering Components etc.
63/37	Lamp Caps, Switches, MCBs, Radiator Tubes, Electrical Contacts, Torch Bodies & Components, Zippers, Eyelets etc.
60/40	Automotive Locking Devices, Door Locks, Keys, Sanitary Fittings etc.
65/35	General Stampings, Hardware Fittings, Switch Parts, Electrical Connectors, Plumbing Valves, Decorative Components, Lock Parts, Hinges, Brackets etc.
70/30	Terminals, Wiring Harness, Connectors, Cartridge Caps, Radiator Tubes etc.
80/20	Decorative Items, Medals, Tokens, Costume Jewellery, Badges, Imitation Gold Articles, Architectural Trim & Plaques, Buttons etc.
85/15	Jewellery & Metal Goods, Components for Electrical Industry, Cladding Panels, Condenser Tubes, Heat Exchanger, Eyelets, Fasteners etc.
90/10	Electrical & Electronic Components, Connectors & Contact Parts, Ordnance Factories, Switches etc.
95/05	Detonators & Explosive Manufacturers etc.
Leaded Brass	Keys for Automotives, Sanitary Fittings, Door Locks, Hinges etc.
Lead-free Brass	Handicrafts, Button Industry, Food Grade Utensils, Jewellery & Metal Goods etc.
Naval Brass	Precision Shipboard Equipment, Pressure Vessels, Condenser Plate, Heat Exchangers, Marine Hardware, Baffle Plates etc.

TEMPER REFERENCE

BRASS		COPPER	
Temper	VPN	Temper	VPN
SOFT	55-70	Soft	45-60
LHA	75-85	HA (Quarter Hard)	60-75
HA (Quarter Hard)	90-110	HB (Half Hard)	75-90
HB (Half Hard)	110-130	HD (Full Hard)	90-110
HD (Full Hard)	130-165	AR (As Rolled)	>110
HE (Extra Hard)	165-175		
HS (Spring Hard)	180-220		

SWG TO MM CONVERSION CHART

SWG	MM	SWG	MM	SWG	MM	SWG	MM	SWG	MM	SWG	MM
7/0	12.700	4	5.893	14	2.032	24	0.559	34	0.234	44	0.081
6/0	11.786	5	5.385	15	1.829	25	0.508	35	0.213	45	0.071
5/0	10.973	6	4.877	16	1.626	26	0.457	36	0.193	46	0.061
4/0	10.160	7	4.470	17	1.422	27	0.417	37	0.173	47	0.051
3/0	9.449	8	4.064	18	1.219	28	0.376	38	0.152	48	0.041
2/0	8.839	9	3.658	19	1.016	29	0.345	39	0.132	49	0.031
0	8.230	10	3.251	20	0.914	30	0.315	40	0.122	50	0.025
1	7.620	11	2.946	21	0.813	31	0.295	41	0.112		
2	7.010	12	2.642	22	0.711	32	0.274	42	0.102		
3	6.401	13	2.337	23	0.610	33	0.254	43	0.091		



To know more,
scan the QR code:



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