



**MESINGANI RAVNO
VALJANI PROIZVODI**

75 YEARS
SOLID AS COPPER

RAVNO VALJANI PROIZVODI

FLAT ROLLED PRODUCTS

ZBOG ODLIČNIH MEHANIČKIH I FIZIČKIH KARAKTERISTIKA BAKRA I MESINGA OBIM I NAČIN PRIMENE RAVNO VALJANIH POLUPROIZVODA JE VEOMA RAZLIČIT:

- U ELEKTROTEHNICI, U PROIZVODNJI OPREME ZA ELEKTROINDUSTRIJU, U PROIZVODNJI SOLARNIH PANELA, IZMENJIVAČA TOPLOTE, ELEKTRIČNIH TRANSFORMATORA, KONEKTORA, OMOTAČA ELEKTRIČNIH KABLOVA;
- U GRAĐEVINARSTVU I ARHITEKTURI;
- U PROIZVODNJI DELOVA I KOMPONENTI ZA AUTOMOBILSKU INDUSTRIJU;
- NA ŽELEZNICI I U BRODOGRADNJI;
- U PROIZVODNJI OPREME ZA RADIO TELEKOMUNIKACIONE UREĐAJE;
- U PROIZVODNJI VOJNE OPREME I MUNICIJE;
- ZA UREĐAJE I OPREMU U DOMAĆINSTVU.

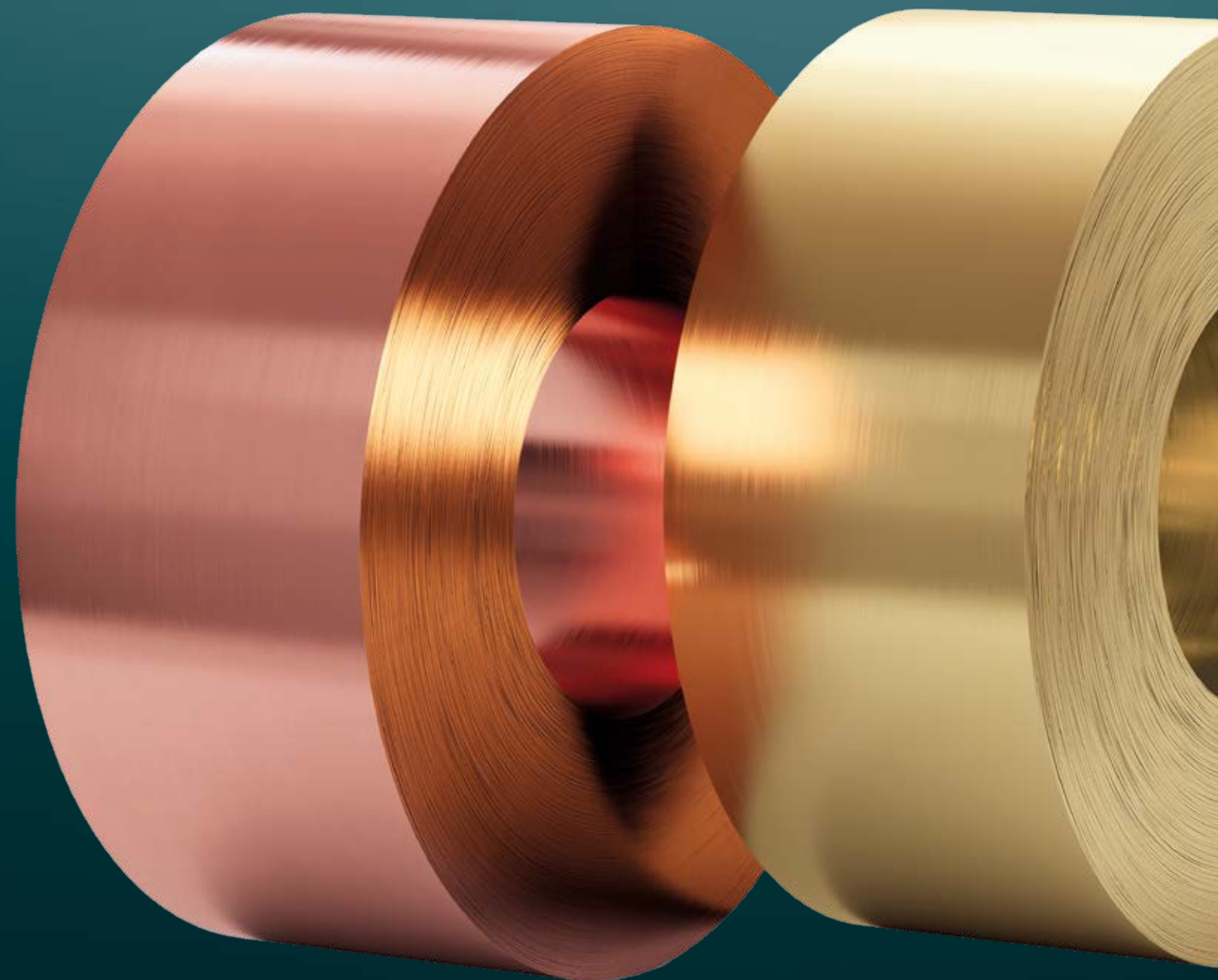
SAV ASORTIMAN RAVNO VALJANIH POLUPROIZVODA PROIZVODI SE PREMA STANDARDIMA: EN, DIN, GOST, BS I DRUGIM SVETSKIM STANDARDIMA, ALI I PREMA SPECIJALNIM ZAHTEVIMA KUPAČA. SPECIJALNI ZAHTEVI MOGU SE ODNOSITI NA: UŽE TOLERANCIJE, ZADOVOLJENJE SPECIJALNIH TEHNOLOŠKIH OSOBINA, UŽE PODRUČJE MEHANIČKIH OSOBINA, POSEBNE ZAHTEVE ZA KVALITET POVRŠINE I DRUGE OSOBINE KOJE TREBA DA ZADOVOLJE ODGOVARAJUĆU NAMENU.

DUE TO EXCELLENT MECHANICAL AND PHYSICAL PROPERTIES OF COPPER AND BRASS, THE RANGE AND WAYS OF USE OF FLAT ROLLED SEMI-FINISHED PRODUCTS ARE QUITE VARIOUS:

- *IN ELECTRICAL ENGINEERING, IN THE PRODUCTION OF EQUIPMENT FOR THE ELECTRICAL INDUSTRY, IN THE PRODUCTION OF SOLAR PANELS, HEAT EXCHANGERS, ELECTRICAL TRANSFORMERS, CONNECTORS, COVERS OF ELECTRICAL CABLES;*
- *IN CIVIL ENGINEERING AND ARCHITECTURE;*
- *IN THE PRODUCTION OF PARTS AND COMPONENTS FOR THE AUTOMOBILE INDUSTRY;*
- *IN THE RAILWAY SECTOR AND SHIPBUILDING;*
- *IN THE PRODUCTION OF EQUIPMENT FOR RADIO AND TELECOMMUNICATION DEVICES;*
- *IN THE PRODUCTION OF MILITARY EQUIPMENT AND AMMUNITION;*
- *FOR DEVICES AND EQUIPMENT IN THE HOUSEHOLD.*

THE WHOLE PORFOLIO OF SEMI-FINISHED FLAT ROLLED PRODUCTS IS MANUFACTURED ACCORDING TO THE FOLLOWING STANDARDS: EN, DIN, GOST, BS AND OTHER INTERNATIONAL STANDARDS, BUT ALSO ACCORDING TO SPECIAL REQUIREMENTS OF THE CUSTOMERS.

THESE SPECIAL REQUIREMENTS MAY REFER TO: REDUCED TOLERANCES, SPECIAL TECHNOLOGICAL REQUESTS, SMALLER RANGE OF MECHANICAL PROPERTIES, SPECIAL REQUESTS REGARDING SURFACE QUALITY AND OTHER PROPERTIES THAT SHOULD MEET THE INTENDED PURPOSE.





1.2

Ravno valjani proizvodi od mesinga

Koriste se za najrazličitije namene u elektrotehnici, automobilske industriji, građevinarstvu, vojnoj industriji, brodogradnji i umetnosti.

Flat rolled brass products

These products are used for a wide variety of purposes in electrical engineering, automotive industry, construction and military industry, shipbuilding and art.

VRSTE MESINGA OD KOJIH SE IZRAĐUJU RAVNO VALJANI PROIZVODI
TYPE OF BRASS USED FOR THE PRODUCTION OF FLAT ROLLED PRODUCTS

EN		DIN	ASTM
SLOVIMA SYMBOL	BROJEVIMA NUMBERS		
CuZn5	CW500L	CuZn5	C21000
CuZn10	CW501L	CuZn10	C22000
CuZn15	CW502L	CuZn15	C23000
CuZn20	CW503L	CuZn20	C24000
CuZn28	CW504L	CuZn28	C25600
CuZn30	CW505L	CuZn30	C26000
CuZn33	CW506L	CuZn33	C26800
CuZn36	CW507L	CuZn36	C27000
CuZn37	CW508L	CuZn37	C27200
CuZn40	CW509L	CuZn40	C28000

ASORTIMAN MESINGANIH RAVNO VALJANIH PROIZVODA
PORTFOLIO OF FLAT ROLLED BRASS PRODUCTS

ASORTIMAN
PRODUCT PORTFOLIO

1.2.1

Mesingane trake i folije

Zbog svojih odličnih karakteristika imaju široku primenu u elektrotehnici, vojnoj industriji, građevinarstvu, automobilske industriji, za izradu kućnih aparata i dekorativnih elemenata u enterijerima.

Mesingane trake i folije za opštu namenu izrađuju se prema standardu EN 1652, a za primenu u građevinarstvu prema standardu EN 1172. Mesingane trake i folije izrađuje se prema standardima EN, DIN, GOST, BS i drugim svetskim standardima, ali i prema specijalnim zahtevima kupaca.

Specijalni zahtevi mogu se odnositi na uže tolerancije, uže područje mehaničkih osobina, zadovoljenje specijalnih tehnoloških osobina i druge specijalne zahteve za osobinama koje treba da zadovolje odgovarajuću namenu.

PROIZVODI PRODUCTS	DIMENZIJE, mm DIMENSIONS, mm	
TRAKA STRIP	Debljina ²⁾ Thickness ²⁾	0,1 - 4,0
	Širina ²⁾ Width ²⁾	8.0 - 1000.0
	Masa kotura u kg po mm širine ³⁾ Coil weight in kg per mm of width ³⁾	do 5.0
	Unutrašnji prečnik kotura ⁴⁾ Inside coil diameter ⁴⁾	75, 100, 150, 200, 300, 400, 500 ili po zahtevu 75, 100, 150, 200, 300, 400, 500 or as requested
FOLIJA FOIL	Debljina Thickness	0.1 - 0.15
	Širina Width	10.0 - 400.0
	Unutrašnji prečnik kotura Inside coil diameter	75, 100 ili po zahtevu 75, 100 or as requested

²⁾ Širina odgovara porudžbini debljine.
³⁾ Zavisno od vrste legure, debljine i širine trake.
⁴⁾ Na zahtev kupca isporuka na metalnom jezgru ili kartonskoj hilzni.

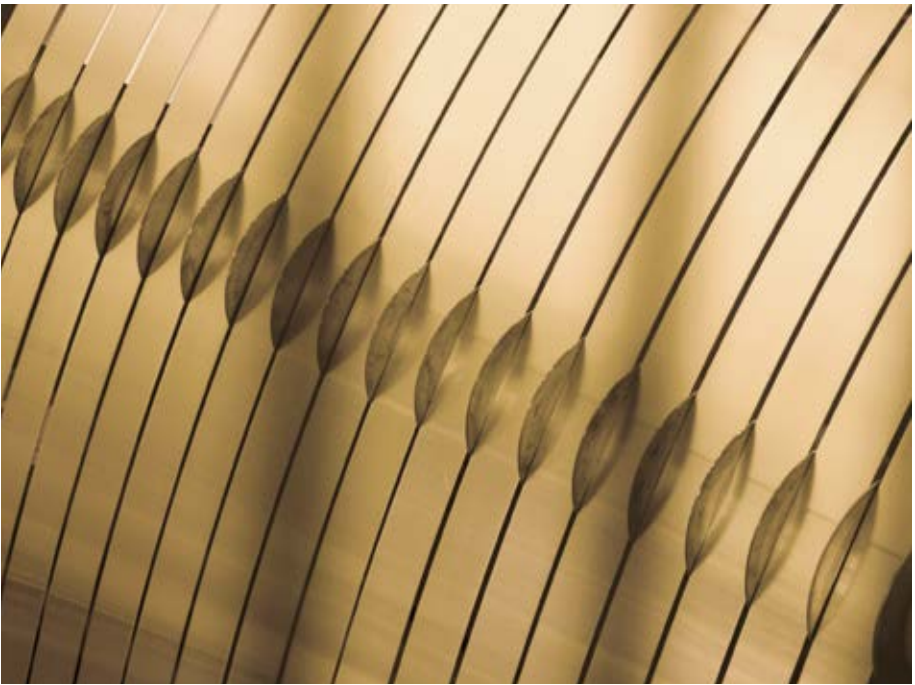
²⁾ The width corresponds to the ordered thickness.
³⁾ Depending on the type of alloy, thickness and width of strip.
⁴⁾ As requested by the buyer, delivery can be done on metal spools or cardboard reels.

Brass strips and foils

Due to their excellent properties, these products are widely used in electrical engineering, military industry, construction industry, automotive industry, for the production of household appliances and decorative elements in interiors.

Brass strips and foils for general purposes are manufactured according to standard EN 1652, and for building purposes (civil engineering) according to standard EN 1172. We make brass strips and foils according to EN, DIN, GOST, BS and other international standards, as well as according to special requirements of our customers.

Special requirements may refer to reduced tolerances, smaller range of mechanical properties, special technological requests and other specific requirements related to the properties that should meet the intended purpose.



1.2.2

Mesingani limovi i ploče

Koriste se u građevinskoj industriji za oblaganje različitih fasadnih površina u eksterijeru kao i za unutrašnju dekoraciju. Mesingane ploče i limovi imaju primenu i u elektrotehnici, brodogradnji, petrohemiji, proizvodnji postrojenja za desalinizaciju, izmenjivače toplote, itd. Mesingani limovi i ploče za opštu namenu izrađuju se prema standardu EN 1652, a za primenu u građevinarstvu prema standardu EN 1172. Mesingane trake i folije izrađujemo prema standardima EN, DIN, GOST, BS i drugim svetskim standardima, ali i prema specijalnim zahtevima kupaca.

Specijalni zahtevi mogu se odnositi na uže tolerancije, uže područje mehaničkih osobina, zadovoljenje specijalnih tehnoloških osobina i druge specijalne zahteve za osobinama koje treba da zadovolje odgovarajuću namenu.

Brass sheets and plates

These products are used in the construction industry for coating various facade surfaces in exterior design, as well as in interior design decoration. Brass plates and sheets are also used in electrical engineering, shipbuilding, petrochemicals, production of desalination plants, heat exchangers, etc. Brass sheets and plates for general purposes are manufactured according to standard EN 1652, and for building purposes (civil engineering) according to standard EN 1172. We make brass strips and foils according to EN, DIN, GOST, BS and other international standards, as well as according to special requirements of our customers.

Special requirements may refer to reduced tolerances, smaller range of mechanical properties, special technological requests and other specific requirements related to the properties that should meet the intended purpose.



ASORTIMAN
PORTFOLIO

PROIZVODI PRODUCTS	DIMENZIJE, mm DIMENSIONS, mm	
LIM SHEET	Debljina Thickness	0.3 - 10.0
	Širina Width	500.0 - 1000.0
	Dužina Length	500.0 - 4000.0
PLOČA PLATE	Debljina Thickness	>10.0 (max 150.0)
	Širina Width	500.0 - 1100.0
	Dužina Length	po zahtevu as requested
PASS, LAMELA SECTION, LAMELLA	Debljina Thickness	0.3 - 10.0
	Širina Width	50.0 - 500.0
	Dužina Length	500.0 - 3000.0

1.2.3

Mesingani diskovi, rondele i višeugaonici

Diskovi, rondele i višeugaonici od mesinga se koriste za različite namene u vojnoj i drugim industrijama, a najčešće za izradu dekorativnih elemenata u enterijeru i za raznovrsne predmete u domaćinstvu. Mesingani diskovi, rondele i višeugaonici za opštu namenu proizvode se prema standardu EN 1652 kao i prema specijalnim zahtevima kupaca.

Specijalni zahtevi mogu se odnositi na uže tolerancije, uže područje mehaničkih osobina, zadovoljenje specijalnih tehnoloških osobina i druge specijalne zahteve za osobinama koje treba da zadovolje odgovarajuću namenu. Mesingane rondele isporučuju se samo u tvrdom stanju.

Brass discs, circles and polygons

Discs, circles and polygons made from brass are used for a variety of purposes in military and other industries, and most often for production of decorative elements in interiors and various household objects. Brass discs, circles and polygons for general purpose are manufactured according to standard EN 1652, as well as according to special requirements of the customers.

Special requirements may refer to reduced tolerances, smaller range of mechanical properties, special technological requests and other specific requirements related to the properties that should meet the intended purpose. Brass circles are delivered in hard temper only.



ASORTIMAN
PRODUCT PORTFOLIO

PROIZVODI PRODUCTS	DIMENZIJE, mm DIMENSIONS, mm	
DISK (štancovan/sečen) DISC (punched/cut)	Debljina Thickness	0.25 - 2.0
	Prečnik Diameter	40.0 - 1,000.0
RONDELA CIRCLE	Debljina Thickness	2.4 -24.0
	Prečnik Diameter	12.0 - 306.0
VIŠEUGAONIK POLYGON	Debljina Thickness	>3.0 (max 30.0)
	Prečnik kruga / broj uglova Circle diameter / No. of angles	po zahtevu as requested



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