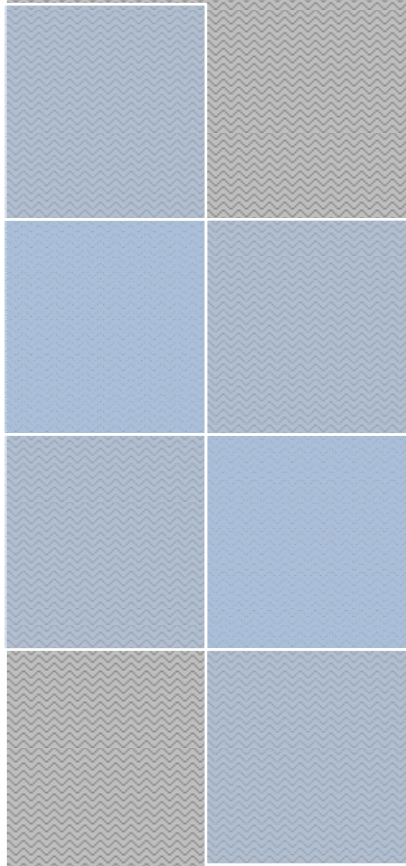


ELKAKON

Proizvodnja industrijskih vodiča
Industrial Wire Production



www.elkakon.hr

2016



O NAMA

Općenito

Tvrtka Elkakon d.o.o. osnovana je krajem 2003. godine, i njome se nastavlja višegodišnja proizvodnja okruglih i profilnih industrijskih vodiča tvrtki osnivača. Osnovna djelatnost tvrtke je proizvodnja okrugle i profilne žice za transformatore i elektromotore.

Misija i vizija tvrtke

Naš strateški cilj je zauzeti vodeće mjesto na hrvatskom tržištu u količini plasirane lak i profilne žice, te proširiti poslovanje na susjedne zemlje i nova tržišta. U tom cilju smo i uspješni zahvaljujući obrazovanim radnicima, te vjernim kupcima.

Vizija Elkakona je ostati tvrtka koja je konkurentna na tržištu, kroz komercijalne uvjete, uz visoku kvalitetu proizvoda, a prema važećim standardima.

U cilju održavanja i stalnog poboljšanja naših visokih standarda kvalitete vlasnici smo certifikata ISO 9001 i ISO 14001.

ABOUT US

Generally

Company Elkakon d.o.o. was established at the end of year 2003., which continues the long production of round and profiled industrial wire form company founders. The main activity is the production of round and profile wire for transformers and electrical motors.

Company Policies

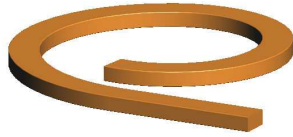
Our strategic goal is to be leader on Croatian market in distributing enamel wire and profile wire and expands business in neighbor countries and new markets. We succeeded thanks to educated workers and loyal customers.

Elkakon vision is to remain competitive company on the market, through commercial conditions and high quality products, defined by known standards.

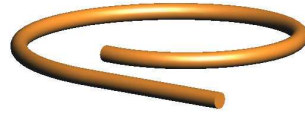
In order to maintain and continuously improve our high quality standards we are certified to ISO 9001 and ISO 14001.



GOLI VODIČI (Cu)



BARE CONDUCTORS (Cu)

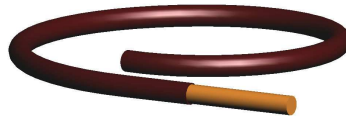


Cu VODIČ		
SIROVINA	Bakar (Cu)	čistoća 99,99%
NORMA	ASTM EN	B 49 1977
PROIZVODNE DIMENZIJE	Maksimalni odnos $b_1 : s_1$	10 : 1
	Minimalni presjek (mm^2)	10
	Maksimalni presjek (mm^2)	150
PROIZVODNE DIMENZIJE	Okrugla žica	$\geq 0,300-3,000\text{mm}$
NORMA	IEC	60317-0-2 60317-0-1
VODLJIVOST	kod 20°C	$\geq 58 \text{ MS/m}$
SPECIFIČNI OTPOR	kod 20°C	$\leq 0,017 \Omega\text{mm}^2/\text{m}$

Cu CONDUCTOR		
RAW MATERIAL	Copper (Cu)	Purity 99,99%
NORM	ASTM EN	B 49 1977
PRODUCTION DIMENSIONS	Max. Ratio $b_1 : s_1$	10 : 1
	Min. Cross Section (mm^2)	10
	Max. Cross Section (mm^2)	150
PRODUCTION DIMENSIONS	Round wire	$\geq 0,300-3,000\text{mm}$
NORM	IEC	60317-0-2 60317-0-1
CONDUCTIVITY	at 20°C	$\geq 58 \text{ MS/m}$
SPECIFIC RESISTANCE	at 20°C	$\leq 0,017 \Omega\text{mm}^2/\text{m}$

OKRUGLA LAK ŽICA (Cu)

ROUND ENAMELLED WIRE (Cu)

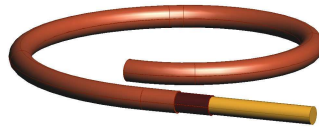


ELMODUR		
SIROVINA	Bakar (Cu)	čistoća 99,99%
PROIZVODNE DIMENZIJE		0,300 – 3,200mm
NORMA	IEC	60317-8
UL	OBMW2	E466745
IZOLACIJSKI SASTAV	Osnovni sloj	THEIC modificirani poliestereimid
	Dodatni sloj	-
TEHNIČKI PODACI	Klasa	H
	Prirast	L1, L2
	Temperaturni indeks (°C)	180
	Toplinski šok (°C)	>220
	Temperatura omekšanja (°C)	>340
	Otpornost na otapala	5H
	R22 otpornost	vrlo dobra
	Otpornost na transformatorska ulja	dobra
PRIMJENA	<p>ELMODUR je bakreni vodič (UL certificiran) lakiran sa THEIC poliestereimidnim smolama uglavnom namijenjen za sve motore, električne strojeve koji rade pri visokim temperaturama (do 180°C). Razvijen je za sve elektrotehničke primjene od malih namotaja preciznih instrumenata do velikih motora i transformatora velike snage i i visokotemperaturnih transformatora. Ima izvrsne mehaničke i toplinske karakteristike, te kemijsku otpornost.</p>	

ELMODUR		
RAW MATERIAL	Copper (Cu)	purity 99,99%
PRODUCTION RANGE		0,300 – 3,200mm
NORM	IEC	60317-8
UL	OBMW2	E466745
INSULATION STRUCTURE	Base Coat	THEIC Modified Polyesterimide
	Over Coat	-
TECNICAL VALUES	Class	H
	Grade	G1, G2
	Thermal Index (°C)	180
	Heat Shock (°C)	>220
	Cut Through Temp. (°C)	>340
	Solvent Resistance pencil hardness	5H
	R22 Resistance	very good
	Resistance To Transformer Oil	good
APPLICATIONS	<p>ELMODUR is the copper conductor (UL certified) enamelled with THEIC polyesterimide resins most widely used for all motors, electric machines operating at high temperature (up to 180°C). It is deployed for all electro technical applications from the small winding for precision instruments to the large motors and high power alternators and transformers acquiring high operating temperature. It has excellent characteristics of mechanical, thermal and chemical resistance.</p>	

OKRUGLA LAK ŽICA (Cu)

ROUND ENAMELLED WIRE (Cu)



ELMOVER		
SIROVINA	Bakar (Cu)	čistoća 99,99%
PROIZVODNE DIMENZIJE		0,300 – 1,000mm
NORMA	IEC	60317-13
UL	OBMW2	E466745
IZOLACIJSKI SASTAV	Osnovni sloj	THEIC modificirani poliestereimid
	Dodatni sloj	Poliamid-imid
TEHNIČKI PODACI	Klasa	200
	Prirast	L1, L2
	Temperaturni indeks (°C)	200
	Toplinski šok (°C)	>240
	Temperatura omekšanja (°C)	>340
	Otpornost na otapala	5H
	R22 otpornost	vrlo dobra
	Otpornost na transformatorska ulja	dobra
PRIMJENA	<p>ELMOVER je bakreni vodič (UL certificiran) lakiran sa smolama uglavnom namijenjen za sve motore, električne strojeve koji rade pri visokim temperaturama (do 200°C). Razvijen je za sve elektrotehničke primjene od malih namotaja preciznih instrumenata do velikih motora i transformatora velike snage i i visokotemperaturnih transformatora. Ima izvrsne mehaničke i toplinske karakteristike, te kemijsku otpornost.</p>	

ELMOVER		
RAW MATERIAL	Copper (Cu)	purity 99,99%
PRODUCTION RANGE		0,300 – 1,000mm
NORM	IEC	60317-13
UL	OBMW2	E466745
INSULATION STRUCTURE	Base Coat	THEIC Modified Polyesterimide
	Over Coat	Polyamide-imide
TECNICAL VALUES	Class	200
	Grade	G1, G2
	Thermal Index (°C)	200
	Heat Shock (°C)	>240
	Cut Through Temp. (°C)	>340
	Solvent Resistance Pencil Hardness	5H
	R22 Resistance	very good
	Resistance To Transformer Oil	good
APPLICATIONS	<p>ELMOVER is the copper conductor (UL certified) enamelled with resins most widely for all motors, electric machines operating at high temperature (up to 200°C). It is deployed for all electro technical applications from the small winding for precision instruments to the large motors and high power alternators and transformers acquiring high operating temperature. It has excellent characteristics of mechanical, thermal and chemical resistance.</p>	

OKRUGLA LAK ŽICA (AI)

ROUND ENAMELLED WIRE (AI)

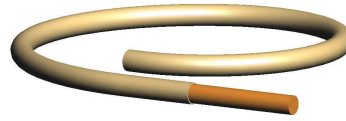
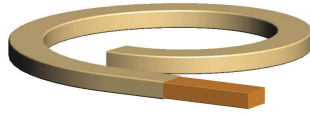


ELMOAL		
SIROVINA	Aluminij (Al)	čistoća 99,95%
PROIZVODNE DIMENZIJE		1,500 – 4,500mm
NORMA	IEC	60317-15
IZOLACIJSKI SASTAV	Osnovni sloj	THEIC modificirani poliestereimid
	Dodatni sloj	-
TEHNIČKI PODACI	Klasa	H
	Prirast	L1, L2
	Temperaturni indeks (°C)	180
	Toplinski šok (°C)	>200
	Temperatura omekšanja (°C)	>340
	Otpornost na otapala	5H
	R22 otpornost	vrlo dobra
	Otpornost na transformatorska ulja	dobra
PRIMJENA	<p>ELMOAL je aluminijски vodič lakiran sa THEIC poliestereimidnim smolama uglavnom namijenjen za sve motore, električne strojeve koji rade pri visokim temperaturama (do 180°C). Koristi se u malim i distributivnim transformatorima, te u motorima. Ima izvrsne mehaničke i toplinske karakteristike, te kemijsku otpornost.</p>	

ELMOAL		
RAW MATERIAL	Aluminum (Al)	purity 99,95%
PRODUCTION RANGE		1,500 – 4,500mm
NORM	IEC	60317-15
INSULATION STRUCTURE	Base Coat	THEIC Modified Polyesterimide
	Over Coat	-
TECNICAL VALUES	Class	H
	Grade	G1, G2
	Thermal Index (°C)	180
	Heat Shock (°C)	>200
	Cut Through Temp. (°C)	>340
	Solvent Resistance pencil hardness	5H
	R22 Resistance	very good
	Resistance to Transformer Oil	good
APPLICATIONS	<p>ELMOAL is the aluminum conductor enameled with THEIC polyesterimide resins most widely for all motors, electric machines operating at high temperature (up to 180°C). It is used in small and distributive transformers and in some motors. It has excellent characteristics of mechanical, thermal and chemical resistance.</p>	

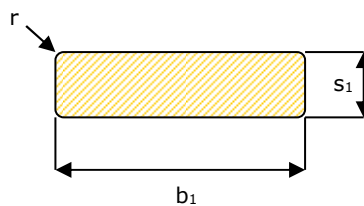
IZOLIRANA ŽICA - PAPIR (Cu)

INSULATED WIRE - PAPER (Cu)



ELKOFIL P		
SIROVINA	Bakar (Cu)	čistoća 99,99%
PROIZVODNE DIMENZIJE	Maksimalni odnos $b_1 : s_1$	10 : 1
	Minimalni presjek (mm ²)	5
	Maksimalni presjek (mm ²)	150
BROJ VODIČA		1
NORMA	IEC	60317-0-2
	IEC	60317-27
IZOLACIJA	Papir (natron, Kraft, TU)	
	Klasa	A
	Temperaturni indeks (°C)	105
	Maks. broj slojeva izolacije	32
	Preklop izolacije	≤ 50%
PRIMJENA	ELKOFIL P je bakreni vodič izoliran papirom, a namijenjen je za uljne transformatore.	

ELKOFIL P		
RAW MATERIAL	Copper (Cu)	Purity 99,99%
PRODUCTION DIMENSIONS	Max. Ratio $b_1 : s_1$	10 : 1
	Min. Cross Section (mm ²)	5
	Max. Cross Section (mm ²)	150
NO OF WIRES		1
NORM	IEC	60317-0-2
	IEC	60317-27
INSULATION	Paper (Natron, Kraft, TU)	
	Class	A
	Thermal Index (°C)	105
	Max. No of Insulation Layer	32
	Insulation Overlap	≤ 50%
APPLICATIONS	ELKOFIL P is copper conductor insulated with paper intended for oil transformers.	



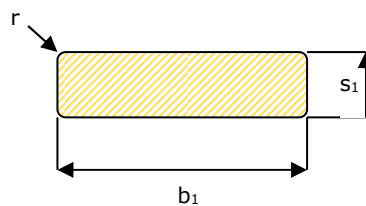
IZOLIRANA ŽICA - NOMEX® (Cu)

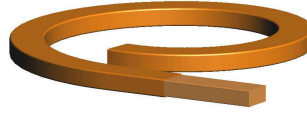
INSULATED WIRE - NOMEX® (Cu)



ELKOFIL N		
SIROVINA	Bakar (Cu)	čistoća 99,99%
PROIZVODNE DIMENZIJE	Maksimalni odnos $b_1 : s_1$	10 : 1
	Minimalni presjek (mm ²)	5
	Maksimalni presjek (mm ²)	150
BROJ VODIČA		1
NORMA	IEC	60317-0-2
	IEC	60317-27
IZOLACIJA	Nomex®	410
	Klasa	H
	Temperaturni indeks (°C)	180
	Maks. broj slojeva izolacije	32
	Preklop izolacije	≤ 50%
PRIMJENA	ELKOFIL N je bakreni vodič izoliran sa Nomex® izolacijom, a namijenjen je za suhe energetske i distributivne transformatore, te za zavojnice.	

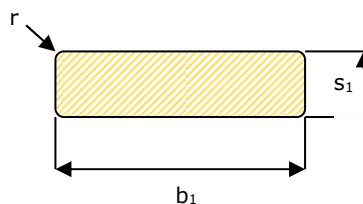
ELKOFIL N		
RAW MATERIAL	Copper (Cu)	Purity 99,99%
PRODUCTION DIMENSIONS	Max. Ratio $b_1 : s_1$	10 : 1
	Min. Cross Section (mm ²)	5
	Max. Cross Section (mm ²)	150
NO OF WIRES		1
NORM	IEC	60317-0-2
	IEC	60317-27
INSULATION	Nomex®	410
	Class	H
	Thermal Index (°C)	180
	Max. No of Insulation Layer	32
	Insulation Overlap	≤ 50%
APPLICATIONS	ELKOFIL N is copper conductor insulated with Nomex® insulation intended for dry power and distributive transformers and for choke coils.	



**PROFILNA ŽICA – PI TRAKA (KAPTON®)
(Cu)**
**RECTANGULAR WIRE – PI FILM
(KAPTON®)(Cu)**


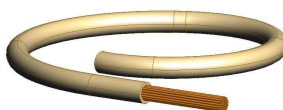
ELKOFIL K		
SIROVINA	Bakar (Cu)	čistoća 99,99%
PROIZVODNE DIMENZIJE	Maksimalni odnos $b_1 : s_1$	10 : 1
	Minimalni presjek (mm ²)	5
	Maksimalni presjek (mm ²)	150
BROJ VODIČA		1
NORMA	IEC	60317-0-2
	IEC	60317-44
IZOLACIJA	Poliimidna traka, Kapton®	
	Klasa	C
	Temperaturni indeks (°C)	>250
	Maks. broj slojeva izolacije	2
	Preklop izolacije	≤ 50%
PRIMJENA	ELKOFIL K je bakreni vodič izoliran polimidnom trakom (Kapton®) sa otpornošću na pojavu „Corona“ struja. Namjenjen je za visokonaponske motore (vučni motori, motori posebnih zahtjeva, motori naftnih pumpi).	

ELKOFIL K		
RAW MATERIAL	Copper (Cu)	Purity 99,99%
PRODUCTION DIMENSIONS	Max. Ratio $b_1 : s_1$	10 : 1
	Min. Cross Section (mm ²)	5
	Max. Cross Section (mm ²)	150
NO OF WIRES		1
NORM	IEC	60317-0-2
	IEC	60317-44
INSULATION	Polyimide Film, Kapton®	
	Class	C
	Thermal Index (°C)	>250
	Max. No of Insulation Layer	2
	Insulation Overlap	≤ 50%
APPLICATIONS	ELKOFIL K is copper conductor insulated with Polyimide Film (Kapton®). Corona resistance. High voltage motors (traction motors, motors for heavy duty applications, motors for crude oil pumps).	



BAKRENO UŽE (Cu)

COPPER ROPE (Cu)



Cu UŽE		
SIROVINA	Bakar (Cu)	čistoća 99,99%
KONSTRUKCIJA	Vidi tabelu	
	Klasa	5
NORMA	IEC	60228
IZOLACIJA	Papir (Kraft), Nomex®	

Cu ROPE		
RAW MATERIAL	Copper (Cu)	Purity 99,99%
CONSTRUCTION	See Table	
	Class	5
NORM	IEC	60228
INSULATION	Kraft Paper, Nomex®	

Poprečni presjek (mm ²)	Konstrukcija	Promjer užeta (mm)	Težina (g/m)
Cross Section (mm ²)	Construction	Diameter (mm)	Weight (g/m)
10	7*11*0,40	4,0	84
16	7*17*0,40	5,0	132
25	7*26*0,40	6,1	201
35	19*14*0,40	7,5	294
50	19*19*0,40	8,9	405
70	19*17*0,50	10,4	579
95	19*23*0,50	12,1	773
120	19*29*0,50	13,6	990
150	37*19*0,50	15,6	1230
185	36*24*0,50	17,3	1530
240	37*30*0,50	19,4	1995
300	60*23*0,50	21,8	2450

USLUGE

U mogućnosti smo obaviti usluge žarenja bakrenih i aluminijskih proizvoda, te oplitanje profilne i okrugle žice, te užadi, sa izolatorima (natron, Nomex, PET film i dr.)

SERVICES

We are able to give you service of annealing of copper and aluminum products and isolation of profile and round wire and ropes with Kraft paper, Nomex® and PE foils.

PAKIRANJE

Prema standardu IEC 60264-2-1

PACKAGING

Standard IEC 60264-2-1

Oznaka	Unutrašnji promjer (mm)	Širina preko svega (mm)	Širina za namatanje (mm)	Nosivost (kg)	Tara (kg)	Napomena
Type	Inner dimension (mm)	Wideness over all (mm)	Wideness (mm)	Capacity (kg)	Tare (kg)	Comment
K200	34	200	160	~12	~0,6	○
K250	34	200	160	~22	~1,1	○
K355	36	200	160	~50	~1,8	○
K500	36	250	180	~100	~7,6	○ □
A250/400	100	400	335	~50	~2,2	○
A315/500	100	500	425	~100	~4,3	○ □
S710	51	210	180	~300	~10,8	□

- - Lak žica (Enamelled Wire)
- - Profilna žica (Rectangular Wire)

CERTIFIKATI

CERTIFICATES



KONTAKT**ELKAKON d.o.o.**

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