



AYBIS GROUP

STRONGER TOGETHER



CHARACTERISTICS

STANDARD	DESIGNATION	CONTENT %	MECHANICAL FEATURES				WALL THICKNESS TOLERANCES mm			
		Cu/P	Temporary resistance, σ_B , MPa (kgf/mm ²) not less than		Relative expansion δ , %, not less than	Vickers hardness HV 5/3				
O'zDSt 3348:2018	Cu-DHP, CW024A	Copper+ silver-99,90	Soft	210	36	38-72	Nominal outer diameter	from 0,25 to 0,30	more than 0,3 and 0,35	more than 0,35 and 0,40
							4,0 to 9,52	±0,02	±0,02	±0,02
		Phosphorous 0,012-0,04	Half hard	240	3	not less than 95	9,52 to 13,0	-	±0,02	±0,02
							13,0 to 16	-	- -	±0,02
			Hard	280	3	not less than 95	16 to 22	-	-	- -
							22 to 44	-		
EN 12735-1:2020	Cu-DHP, CW024A	Cu 99,9	Annealed	220	40	40-70	Nominal outer diam.			Wall thickness tolerance e
										e < 1 mm
		P 0,015-0,04	Half hard	250	30	75-10	d ≥ 18 mm			±0,10
							d ≥ 18 mm			±0,10
			Hard	290	3	min 100				
EN 1057-2006	Cu-DHP, CW024A	Cu 99,9	Annealed	220	40	40-70	Nominal outer diam.			Wall thickness tolerance e
										e < 1 mm
		P 0,015-0,04	Half hard	250	30a	75-10	d < 18 mm			±0,10
					20a		d ≥ 18 mm			±0,10
			Hard	290	3	min. 100				

STANDARDS FOR COPPER PIPES

WALL THICKNESS TOLERANCES, mm					OUTER DIAMETER TOLERANCES		FIELD OF APPLICATION
from 0,40 to 0,50	from 0,50 to 0,63	from 0,63 to 0,80	from 0,80 to 1,5	from 1,5 to 2,00	Nominal outer diameter	Outer diameter tolerances	This standard applies to seamless copper pipes cold-formed round section general purpose and installs technical requirements for them. The pipes are intended for use in cold and hot water supply systems, water (steam) heating, cooling, sewerage, treatment facilities and gas supply, as well as for use in heat exchangers. Everyone's demands sections of this standard are mandatory and suitable for certification
±0,03	±0,04	±0,04	–	–	from 3,0 to 9,0	±0,04	
±0,03	±0,04	±0,04	–	–	from 9,0 to 19,0	±0,1	
±0,03	±0,04	±0,04	–	–	from 19,0 to 28,0	±0,15	
– –	– –	±0,04	±0,1	–	from 28,0 to 44,0	±0,2	
		±0,04	±0,1	–			
Wall thickness tolerance e					from 3 to 18	R220±0,04, R290±0,04, R250±0,09	This European Standard specifies requirements, sampling, test methods and delivery conditions for seamless round copper pipes, which are used for refrigeration piping systems and air conditioning technology (i.e. pipelines, connections, repairs)
e ≥ 1 mm					from 18 to 28	R220±0,05, R290±0,06, R250±0,10	
±0,13					from 28 to 54	R220±0,06, R290±0,07, R250±0,11	
±0,15					from 54 to 76,1	R220±0,07, R290±0,10, R250±0,15	
					from 76,1 to 88,9	R220±0,07, R290±0,15, R250±0,2	
					from 88,9 to 108	R220±0,07, R290±0,2, R250±0,3	
Wall thickness tolerance e					from 3 to 18	R220±0,04, R290±0,04, R250±0,09	This European standard specifies the requirements for sampling, test methods, and delivery conditions seamless round copper pipes. It is applied to pipes with an outer diameter from 6 mm to 267 mm inclusive used in distribution networks for hot and cold water, hot water heating systems, including panel heating systems (underfloor, wall, air), distribution of household gas and liquid fuel, cleaning Wastewater. It can also be applied to seamless round copper pipes intended for pre-insulation before use for any of the above purposes. It applies to pipes with an outer diameter of 6mm or more up to 267 mm inclusive used in: • distribution networks for hot and cold water; • hot water heating systems, including panel heating systems (underfloor, wall, air); • distribution of household gas and liquid fuel; • wastewater treatment. It can also be applied to seamless round copper pipes intended for pre-insulation before using for any of the above purposes."
e ≥ 1 mm					from 18 to 28	R220±0,05, R290±0,06, R250±0,10	
±0,13					from 28 to 54	R220±0,06, R290±0,07, R250±0,11	
±0,15					from 54 to 76,1	R220±0,07, R290±0,10, R250±0,15	
					from 76,1 to 88,9	R220±0,07, R290±0,15, R250±0,2	
					from 88,9 to 108	R220±0,07, R290±0,2, R250±0,3	
					from 108 to 159	R220±0,2, R290±0,7, R250±0,4	
					from 159 to 267	R220±0,6, R290±1,5, R250-	

COPPER PIPES IN STRAIGHT CUTS

Standards: EN 12735-1; EN 1057; ASTM B68; ASTM B280

Copper brand: M1 M00K

Tempers: Hard, half-hard, soft

Tubes type: straight length (cut)

Packing: In straight cuts from 3 m to 6 m (in bundles up to 350 kg and in wooden boxes up to 1 ton)



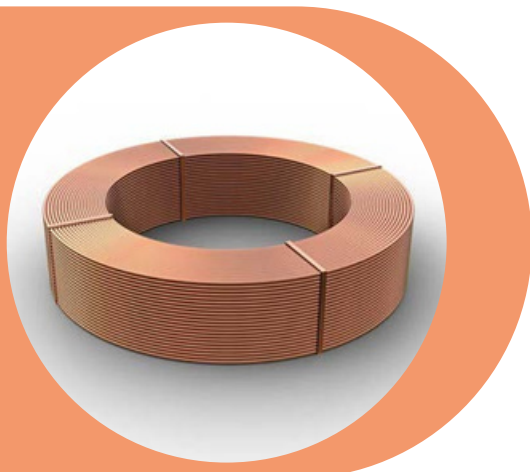
Copper pipes in straight length are used in many areas of industry, including refrigeration, air conditioning systems, and heat exchange units. They meet the requirements of international standards ASTM B280, ASTM B68.

DIAMETER		WALL THICKNESS																						PACKING FORM	LENGTH	
		mm																								
		0,28	0,30	0,32	0,35	0,40	0,45	0,50	0,60	0,70	0,80	0,90	1,00	1,10	1,20	1,25	1,30	1,35	1,50	1,70	1,80	1,90	2,00			
		inch																								
inch	mm	0,011	0,012	0,013	0,014	0,016	0,018	0,020	0,024	0,028	0,031	0,035	0,039	0,043	0,047	0,049	0,051	0,053	0,059	0,067	0,071	0,075	0,079			
	4							⊗			⊗		⊗												STRAIGHT LENGTH	from 3 to 6 m
3/16	4,76					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗												STRAIGHT LENGTH	from 3 to 6 m
	5							⊗		⊗	⊗		⊗												STRAIGHT LENGTH	from 3 to 6 m
	5,5					⊗			⊗	⊗	⊗	⊗													STRAIGHT LENGTH	from 3 to 6 m
	6							⊗	⊗	⊗	⊗	⊗	⊗												STRAIGHT LENGTH	from 3 to 6 m
1,4	6,35				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗											STRAIGHT LENGTH	from 3 to 6 m
5/16	7,93				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										STRAIGHT LENGTH	from 3 to 6 m
	7,8							⊗		⊗	⊗	⊗	⊗	⊗	⊗										STRAIGHT LENGTH	from 3 to 6 m
	8 9					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									STRAIGHT LENGTH	from 3 to 6 m
	9/52							⊗		⊗	⊗	⊗	⊗	⊗											STRAIGHT LENGTH	from 3 to 6 m
3/8	9,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									STRAIGHT LENGTH	from 3 to 6 m
	10										⊗	⊗	⊗	⊗	⊗										STRAIGHT LENGTH	from 3 to 6 m
								⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										STRAIGHT LENGTH	from 3 to 6 m
	12		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗								STRAIGHT LENGTH	from 3 to 6 m
	12,5					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗											STRAIGHT LENGTH	from 3 to 6 m
1/2	12,7		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗							STRAIGHT LENGTH	from 3 to 6 m
	13					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗								STRAIGHT LENGTH	from 3 to 6 m
	13,5					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										STRAIGHT LENGTH	from 3 to 6 m
	14					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗								STRAIGHT LENGTH	from 3 to 6 m
5/8	15,87					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗						STRAIGHT LENGTH	from 3 to 6 m
	16							⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗						STRAIGHT LENGTH	from 3 to 6 m

DIAMETER		WALL THICKNESS																				PACKING FORM	LENGTH		
		mm																							
		0,28	0,30	0,32	0,35	0,40	0,45	0,50	0,60	0,70	0,80	0,90	1,00	1,10	1,20	1,25	1,30	1,35	1,50	1,70	1,80			1,90	2,00
		inch																							
inch	mm	0,011	0,012	0,013	0,014	0,016	0,018	0,020	0,024	0,028	0,031	0,035	0,039	0,043	0,047	0,049	0,051	0,053	0,059	0,067	0,071	0,075	0,079		
	16,5										●	●	●	●	●	●	●	●	●					STRAIGHT LENGTH	from 3 to 6 m
	18									●	●	●	●	●	●	●	●	●	●	●	●			STRAIGHT LENGTH	from 3 to 6 m
3/4	19,05								●	●	●	●	●	●	●	●	●	●	●	●	●			STRAIGHT LENGTH	from 3 to 6 m
	19,5											●	●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
	20											●	●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
	22									●	●	●	●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
7/8	22,22								●	●	●	●		●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
	25												●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
1	25,4										●	●	●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
	25,5												●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
	28											●	●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
1 1/8	28,57										●	●		●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
	29												●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
2 3/16	30												●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
	31													●		●		●		●		●	●	STRAIGHT LENGTH	from 3 to 6 m
1 17/64	32															●		●		●				STRAIGHT LENGTH	from 3 to 6 m
	34														●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
1 3/8	34,92										●	●	●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
1 3/8	35										●	●	●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
	38												●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
1 37/64	40												●	●	●	●	●	●	●	●	●	●		STRAIGHT LENGTH	from 3 to 6 m
1 5/8	41,27										●	●	●	●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m
1 21/32	42													●	●	●	●	●	●	●	●	●	●	STRAIGHT LENGTH	from 3 to 6 m



LEVEL WOUND COILS



Standard: EN 12735-1; EN 1057; ASTM B68;
ASTM B280

Copper brand: M1 M00K

Temper: Hard, half-hard, soft

Packing: In coils from 100 kg to 350 kg

DIAMETER		WALL THICKNESS																						PACKING
		mm																						
		0,28	0,30	0,32	0,35	0,40	0,45	0,50	0,6	0,70	0,80	0,90	1,00	1,10	1,20	1,25	1,30	1,35	1,5	1,70	1,80	1,90	2,00	
		inch																						
inch	mm	0,011	0,012	0,013	0,014	0,016	0,018	0,020	0,024	0,028	0,031	0,035	0,039	0,043	0,047	0,049	0,051	0,053	0,059	0,067	0,071	0,075	0,079	
	4							⊗			⊗		⊗											LWC
3/16	4,76					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗											LWC
	5							⊗		⊗	⊗		⊗											LWC
	5,5						⊗		⊗	⊗	⊗	⊗												LWC
	6							⊗	⊗	⊗	⊗	⊗	⊗											LWC
1,4	6,35				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										LWC
5/16	7,93				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									LWC
	7,8							⊗		⊗	⊗	⊗	⊗	⊗	⊗									LWC
	8					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗								LWC
	9							⊗		⊗	⊗	⊗	⊗	⊗	⊗									LWC
3/8	9/52	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗								LWC
	9,8										⊗	⊗	⊗	⊗	⊗									LWC
	10							⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									LWC
	12		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗							LWC
	12,5					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										LWC
1/2	12,7		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗						LWC
	13					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗							LWC
	13,5					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									LWC
	14					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗							LWC
5/8	15,87					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗					LWC
	16							⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗					LWC
	16,5										⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				LWC
	18									⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗			LWC
3/4	19,05								⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗			LWC
	19,5											⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗		LWC
	20											⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗		LWC

PANCAKE COILS

Standard: EN 12735-1; EN 1057; ASTM B68; ASTM B280

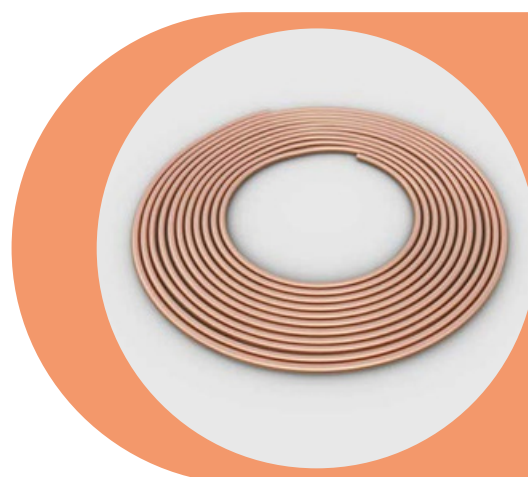
Copper brand: M1 M00K

Temper: Hard, half-hard, soft

Type: Pancake coils

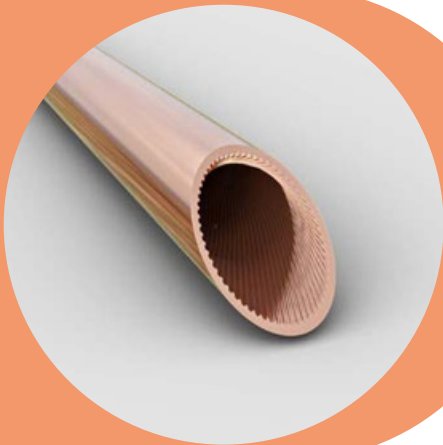
Packing: PC 15m, 25m, 30m, 50m (in carton boxes)

Material: Cu DHP



DIAMETER		WALL THICKNESS																						PACKING
		mm																						
		0,28	0,30	0,32	0,35	0,40	0,45	0,50	0,6	0,70	0,80	0,90	1,00	1,10	1,20	1,25	1,30	1,35	1,50	1,70	1,80	1,90	2,00	
		inch																						
inch	mm	0,011	0,012	0,013	0,014	0,016	0,018	0,02	0,024	0,028	0,031	0,035	0,039	0,043	0,047	0,049	0,051	0,053	0,059	0,067	0,071	0,075	0,079	
3/16	4							🌀			🌀		🌀											PANCAKE COIL
	4,76					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀											PANCAKE COIL
	5							🌀		🌀	🌀		🌀											PANCAKE COIL
	5,5						🌀		🌀	🌀	🌀	🌀												PANCAKE COIL
	6							🌀	🌀	🌀	🌀	🌀	🌀											PANCAKE COIL
1,4	6,35				🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀										PANCAKE COIL
5/16	7,93				🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀									PANCAKE COIL
	7,8							🌀		🌀	🌀	🌀	🌀	🌀	🌀									PANCAKE COIL
	8					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀								PANCAKE COIL
	9							🌀		🌀	🌀	🌀	🌀	🌀										PANCAKE COIL
3/8	9/52	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀								PANCAKE COIL
	9,8										🌀	🌀	🌀	🌀	🌀									PANCAKE COIL
	10							🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀									PANCAKE COIL
	12		🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀							PANCAKE COIL
	12,5					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀										PANCAKE COIL
1/2	12,7		🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀						PANCAKE COIL
	13					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀							PANCAKE COIL
	13,5					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀									PANCAKE COIL
	14					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀							PANCAKE COIL
5/8	15,87					🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀					PANCAKE COIL
	16							🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀					PANCAKE COIL
	16,5										🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀				PANCAKE COIL
	18									🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀			PANCAKE COIL
3/4	19,05								🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀			PANCAKE COIL
	19,5											🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀		PANCAKE COIL
	20											🌀	🌀		🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀		PANCAKE COIL
	22									🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	PANCAKE COIL
7/8	22,22							🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	PANCAKE COIL

INNER GROOVED TUBES



Standard: EN 12735-1; EN 1057; ASTM B68; ASTM B280

Copper brand: M1 M00K

Temper: Hard, half-hard, soft

Packing: In LWC from 100 kg to 150 kg

COPPER PIPE FOR REFRIGERATION EQUIPMENT is produced according to B 280 (USA) and EN 12735-1 (EU) standards. These standards clearly regulate diameter sizes, wall thickness, maximum operating pressure and a ton of different seamless copper pipes. These characteristics are necessary to produce optimal copper tube for long and efficient operation in refrigeration equipment. Material composition: Cu (copper) - 99.9%, P (phosphorus) - 0.03%. It is these pipes that will have such properties as durability, vibration resistance, corrosion resistance and high thermal conductivity. No less important quality in standards for copper pipes is resistance to freons, pressure and temperatures. Important, that due to the high ductility of copper, when working fluids freeze, the pipe is deformed, but does not rupture. When installing air conditioners, you only need to buy and use high-quality copper pipes!

DIAMETER		WALL THICKNESS												RIB HEIGHT	QUAN-TY OF RIBS	PACKING
		mm														
		0,25	0,28	0,30	0,32	0,35	0,38	0,40	0,42	0,45	0,50	0,55	0,6			
inch	mm	inch														
		0,010	0,011	0,012	0,013	0,014	0,015	0,016	0,017	0,018	0,020	0,022	0,024			
	5	●	●											0,15±0,01	40	LWC
9,32.5	7	●	●	●	●									0,18±0,02	44	LWC
3/8	7,93	●	●	●	●									0,15±0,02	50	LWC
3/9	9,52		●	●	●	●	●	●	●	●				0,16±0,03	50	LWC
3/11	12					●	●	●	●	●				0,16±0,05	60	LWC
3/12	12,7					●	●	●	●	●				0,25±0,06	60	LWC
3/13	15/87							●	●	●	●	●	●	0,25±0,05	65	LWC

SPECIAL FORM COPPER PIPES

Copper brand: M1 M00K

Type: Straight-thick tube

Temper: Hard

Packing: Straight length from 3 meters

Note: These pipes can be used in critically hazardous environments in cold and hot water supply systems, water and steam heating systems, wastewater treatment plants, and gas supply systems. As well as automobile aviation, shipbuilding industries.



STRAIGHT THICK WALL PIPE			
DIAMTER	WALL THICKNESS	PACKING	LENGTH
60 mm	10 mm	STRAIGHT LENGTH	from 3 to 12 m
70 mm	15 mm	STRAIGHT LENGTH	from 3 to 12 m
80 mm	20 mm	STRAIGHT LENGTH	from 3 to 12 m
90 mm	25 mm	STRAIGHT LENGTH	from 3 to 12 m
120 mm	25 mm	STRAIGHT LENGTH	from 3 to 12 m

Content: Copper cathode and phosphorous copper

Copper brand: M1 M00K

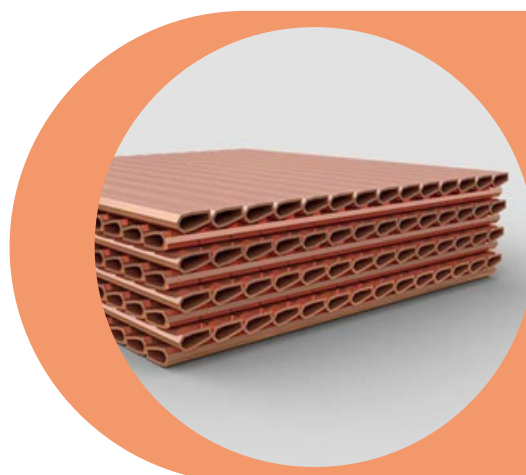
Temper: Hard

Measurement: tons

Type and size of copper rods

Packing: In straight cuts (pallets up to 1 ton)

Note: Designed for hanging cathode bases and supplying direct electric current during electrorefining of copper.



	COPPER RODS								
	SIZES mm						WALL THICKNESS	PACKING	LENGTH
	A	B	C	D	E	F			
	40	18	12	14	6	6	3±0,5	STRAIGHT LENGTH	from 1 to 2m
	40	18	12	19,5	4,5	9	3±0,5	STRAIGHT LENGTH	from 1 to 2m
	40	18	12	15	5	8	3±0,5	STRAIGHT LENGTH	from 1 to 2m

Content: Copper cathode and phosphorous copper

Copper brand: M1 M00K

Temper: Hard Measurement: tons

Packing: Straight length from 3 m

Note: Designed for instrument making in the automotive, aviation, and shipbuilding industries. industries. Thanks to Copper rods with increased electrical conductivity are ordered for the production of electrodes, lightning protection, grounding of pantographs, winding contacts, etc. lightning protection, winding contacts, etc..



COPPER RODS		
DIAMETER	PACKING	LENGTH
60 mm	STRAIGHT LENGTH	from 3 to 12 m
90 mm	STRAIGHT LENGTH	from 3 to 12 m
120 mm	STRAIGHT LENGTH	from 3 to 12 m

Content: Copper cathode and phosphorous copper

Copper brand: M1 M00K

Temper: Hard Measurement: tons

Packing: Straight length from 3 m

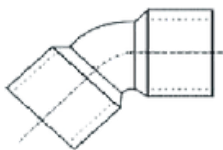
Note: Field of application: tools and car making, aviation and shipbuilding industries.



SQUARE TUBES				
DIAMETER, mm		INTERNAL DIAMETER, mm	PACKING	LENGTH
65	65	25	STRAIGHT LENGTH	from 3 to 12 m

COPPER FITTINGS

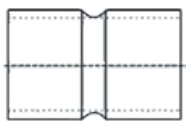
Aybis Group supplies copper fittings of various diameters, meeting world standards, using modern technologies, and ensuring high-quality products.



BEND 45



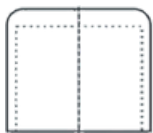
Model	Articles	Metric size	Weight(g)
Two-socket bend 45	5001A	22	26,86
	5001A	35	50
	5001A	100	100
	5001A	42	120



CONNECTOR



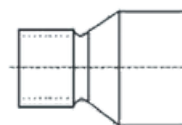
Model	Articles	Metric size	Weight(g)
Coupling	5270	8	4,1
	5270	10	5,55
	5270	12	6,2
	5270	15	7,8
	5270	18	12,6
	5270	22	20,3
	5270	28	35,4
	5270	35	61,3
	5270	42	92,7



PLUGS



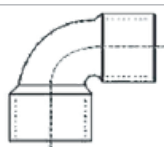
Model	Articles	Metric size	Weight(g)
Coupling	5301	8	
	5301	10	4
	5301	12	4
	5301	15	5
	5301	18	11
	5301	22	13
	5301	22	24
	5301	35	43
	5301	42	72



REDUCER COUPLINGS



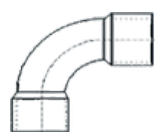
Model	Articles	Metric size	Weight(g)
Reducing coupling	5240	15*10	9,65
	5240	15*12	9,4
	5240	15*12	13
	5240	15*15	13,5
	5240	15*12	21,2
	5240	15*15	21,1
	5240	15*18	21,6
	5240	15*15	37,1
	5240	15*18	35,5
	5240	15*22	36,3
	5240	15*22	63,2
	5240	15*28	61,4
	5240	15*22	94,5
	5240	15*28	93,3
	5240	15*35	96,7



BEND 90



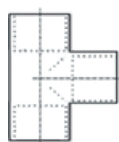
Model	Articles	Metric size	Size inch	Weight(g)
Two-socket elbow 90 g short	5090A	8	5/16	6
	5090A	10	3/8	6,5
	5090A	12	1/2	8,05
	5090A	15		13,63
	5090A	16	5/8	16,53
	5090A	18		25,29
	5090A	19	3/4	25,5
	5090A	22	7/8	32,18
	5090A	28	1 1/8	54,61
	5090A	35	1 3/8	109,1
	5090A	42	1 5/8	140,1



EXTENDED ELBOW



Model	Articles	Metric size	Size inch	Weight(g)
Two-pipe elbow 90 gr long	5002A	8	5/16	5,6
	5002A	10	3/8	8,17
	5002A	12	1/2	10,87
	5002A	15		19,16
	5002A	16	5/8	23,5
	5002A	18	3/4	32,86
	5002A	19	3/4	35,11
	5002A	22	7/8	45,94
	5002A	28	1 1/8	83,28
	5002A	35	1 3/8	152,2
	5002A	42	1 5/8	226

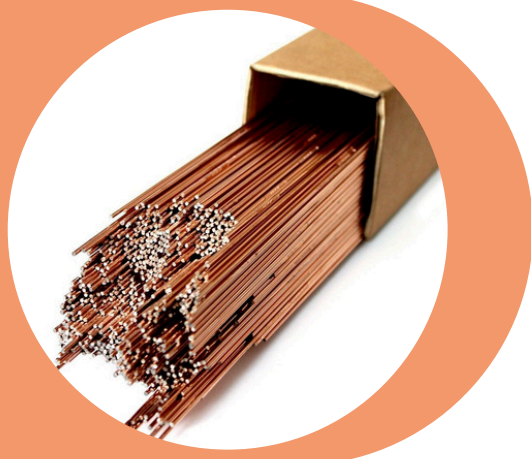


TEE



Model	Articles	Metric size	Size inch	Weight(g)
Tee	5130	6		4,06
	5130	8	5/16	7,4
	5130	10		11,4
	5130	12	1/2	15,86
	5130	15		28,5
	5130	16	5/8	31,2
	5130	18		51,15
	5130	19	3/4	53,45
	5130	22	7/8	64,23
	5130	28		102,82
	5130	35	1 3/8	166
	5130	42		256

BRAZING ALLOY



AYBIS Group supplies the following types of brazing alloy:

BCu94P6 - Copper phosphorous



BCu92P6Ag - Copper silver 2%



BCu89P6Ag5 - Copper silver 5%



BCu805P5Ag15 - Copper silver 15%



BCu65P5Ag30 - Copper silver 35%



NAME OF PRODUCT	DESIGNATION	MELTING	WORKING	SCOPE OF APPLICATION	DENSITY G / CM 3	PROCESSING QUALITY	DIN EN 1044/DIN 8513 ISO 3677
Brazing alloy 0% (lat, round) diameter 2mm to 3,5mm, length 500mm	The material used in soldering for joining workpieces has a melting point lower than the joined metals.	715-805	760	Air conditioning, refrigeration	9,2-7,35	good	DIN EN 1044
Brazing alloy 0,5% (lat, round) diameter 2mm to 3,5mm, length 500mm		660-830	750		9,2-7,35	good	DIN EN 1045
Brazing alloy 1,8% (lat, round) diameter 2mm to 3,5mm, length 500mm BCUP		655-825	745		9,2-7,35	good	DIN EN 1046
Brazing alloy 2% (lat, round) diameter 2mm to 3,5mm, length 500mm		650-820	740		9,2-7,35	good	DIN EN 1047
Brazing alloy 5% (lat, round) diameter 2mm to 3,5mm, length 500mm		650-800	710		9,2-7,35	good	DIN EN 1048
Brazing alloy 15% (lat, round) diameter 2mm to 3,5mm, length 500mm		620-780	680		9,2-7,35	good	DIN EN 1049
Brazing alloy 30% (lat, round) diameter 2mm to 3,5mm, length 500mm		600-750	650		9,2-7,35	good	DIN EN 1050



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