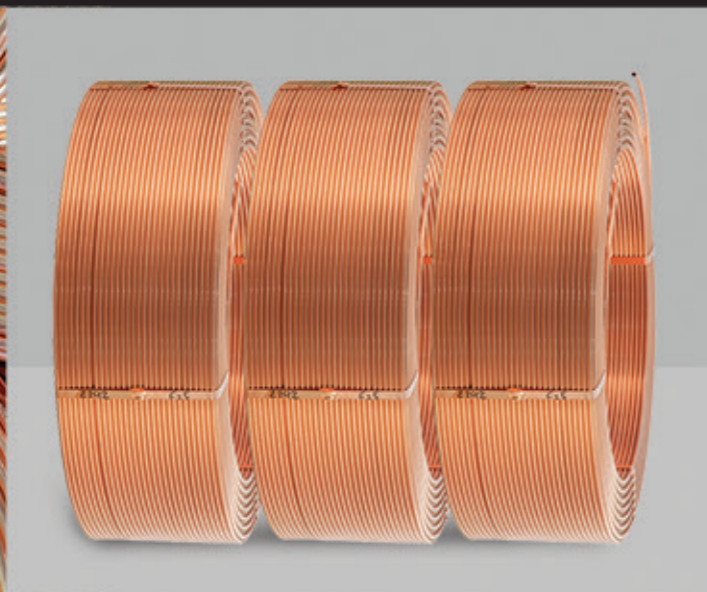




# IRANIAN BABAK COPPER COMPANY



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### Iranian Babak Copper Company (IBCCO)

IBCCO, as one of the subsidiaries of the Middle East industries development holding company (MIDHCO), has initiated its activities on copper industries from 2010. Using Cast and Draw technology (4th production line in the world), the company profits from the newest production line of copper tube with nominal capacity of 12000 tons a year. Furthermore, the greatest Tank Bioleaching method in copper cathode production in the world is now constructed by IBCCO with nominal capacity of 50000 tons a year.

### Copper Tube Plant

Production line of plant is a combination of casting technology via Up Cast Company, Finland and drawing technology by ASMAG Company, Austria. The plant can produce copper tubes with the best quality that meets the current international standards, especially ASTM B68, ASTM B75, ASTM B280, EN 1075, EN 12735, and JIS H3300 for local and overseas markets. Because of the improvements in Cast and Draw technology, the production process of the final product has shortened. In addition to the faster delivery time, the products will be offered with lower prices.

The production process of IBCCO is divided into three sections; producing Mother Tube through Up Cast, reducing the tube diameter to the final desired level through drawing and shaping machines, and eventually annealing the final product through bright annealing furnaces.

### Quality Control Unit

In order to sustain and improve the quality of products continuously, quality control laboratory acts as an independent unit. Having an equipped lab, the company delivers the products with highest quality that meets the current international standards. Some of the executed tests are mentioned below:

- Chemical analysis (element, oxygen, and hydrogen analysis)
- Metallography
- Bending and expanding test
- Eddy current test
- Hardness test
- Tensile strength test
- Dimensional control
- Surface quality control



Standard	Designation	Annealing Temper		Min. Tensile strength MPa	Min. Relative Elongation %	Grain Size μm	Hardness Vickers
ASTM	C12200 (Cu-DHP)	O60	Soft Anneal	205	40	Min 40	-
		O50	Light Anneal	205	40	Max 40	-
		H58	Hard (drawn)	250	-	-	-
EN	CW024A (Cu-DHP)	R220	Anneal	220	40	-	(40to70)(HV5)
		R290	Hard	290	3	-	(Min100)(HV5)
		Y040	Light Anneal	210	40	15 to 40	
		Y035	Soft Anneal	220	40	30 to 60	
JIS	C1220 (Cu-DHP)	O	Soft Anneal	205	40	25 to 60	Max 69
		OL	Light Anneal	205	40	Max 40	Max 73
		H	Hard	315	-	-	Min 100

Cu DHP, containing 150-400 ppm phosphorus (0.015-0.040% WT), is capable of bending, drawing, and welding as well as excellent thermal conductivity. It is also resistant to corrosion and hydrogen embrittlement.

Type of products and dimension range	Shape	Outer diameter			Thickness		Length (meter)			Sustainable pressure for frequently-used sizes	Sustainable pressure of bar at 37.7 degree Celsius		Thickness tolerance Mm	Thickness Inch (mm)	Tolerance of average diameter	Actual outer diameter Inch (mm)
			From	To	From	To	From	To	Drawn		Annealed					
		Straight	Inch	3/8	1-1/8	0.013	0.056	2.5	6		168	98				
Mm	9.52		28.57	0.33	1.42											
Pancake	Inch	1/4	7/8	0.016	0.056	15	30	109	64	±0.06	0.030 (0.75)	±0.05	3/8 (9.52)			
	Mm	6.35	22.22	0.4	1.42											
LWC	Inch	-	3/4	0.013	0.056			81	47	±0.06	0.030 (0.75)	±0.05	1/2 (12.7)			
	Mm	6	19.05	0.33	1.42											
								64	38	±0.06	0.030 (0.75)	±0.05	5/8 (15.87)			
								53	31	±0.06	0.030 (0.75)	±0.06	3/4 (19.05)			