

Electrolytic Copper and Alloys



Mechanical properties

Denomination Status		Tensile strength		Elastic limit 0.2% N/mm ²	Minimum elongation %		Hardness			
		(R) N/mm ²					Vickers HV		Brinell HB	
		min	max		A5	A10	min.	max.	min.	max.
F41	Drive	290-360		min. 250	5	-	-	-	80	105

Chemical characteristics of the most common alloys

Alloy	Main Components				Name	Applications
	Cu + Ag	P	O			
	min.	max.	min.	max.		
Cu ETP	≥ 99.9	-	-	0.01 0.06	Electrolytic copper	Electric conductors - heat exchangers work requiring soldering copper or embutación, industrial piping, sanitary or refrigeration.
Cu DHP	≥ 99.85	0.013	0.050	- 0.01	phosphorus deoxidized copper, high-content	

Electrical

Cu ETP Plate

Status	Resistance 20 ° C conductivity minimum 20 ° C			% IACS
	Ω mm ²	m	Ω mm ²	
	m	max		
Annealing	0.01754		57	98.3
Semihard	0.01786		56	96.5

Drive	0.01786	56	96.5
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Special alloys

Copper alloyed with:

beryllium · aluminum · cobalt · chromium · boron · iron · iron / aluminum · iron / manganese · manganese · nickel · zirconium · silicon · silver · etc.

CASTING PIECES AND FORGING