IBERMETAL
ALUMINIOS Y PLÁSTICOS CATALUÑA S.L.

Electrolytic Copper and Alloys



Mechanical properties

Denomination	Status	Tensile strength (R) N/mm ^{2}		Elastic limit 0.2% N/mm ^{2}	Minimum elongation %		Hardness			
							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 Cu + Ag	P		O		Name	Applications
		min.	max.	min.	max		
Cu ETP	≥ 99.9	–	–	0.01	0.06	Electrolytic copper	Electric conductors – heat exchangers
Cu DHP	≥ 99.85	0.013	0.050	–	0.01	phosphorus deoxidized copper, high-content	work requiring soldering copper or embutación, industrial piping, sanitary or refrigeration.

Electrical

Cu ETP Plate

Status	Resistance 20 º C $\frac{\Omega \text{ mm } 2}{m}$ max	conductivity minimum 20 ° C $\frac{m}{\Omega \text{ mm } 2}$	% IACS
Annealing	0.01754	57	98.3
Semihard	0.01786	56	96.5

Drive	0.01786	56	96.5

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