ZR16X

lebronze alloys

Applications properties:

- High electrical and thermal conductivity
- Suitable mechanical properties
- Good annealing resistance

Physical properties:

Specific gravity	8,9
Coefficient of expansion 20 to 300°C x10 ⁻⁶	17
Young's modulus N/mm ²	110 000
Thermal conductivity W/(mK)	320
Resistivity micro ohm.cm	2,00
Electrical conductivity (%IACS)	86
Magnetic permeability	1,01

Alloy properties:

Copper Zirconium alloy Transformation by forging or extrusion and drawing Suitable for hot and cold working Suitable for hard and soft brazing Not suitable for welding

Applications:

Resistance welding: Electrodes, sections

Nominal composition :

Zr	0,15
Cu	Balance

International standards:

ASTM: C15000 RWMA class 1 DIN 17666 wn 2.1580 DIN 17672 ISO 5182 A2/4 EN 12163, EN 12167, EN 12420 CW120C

Available forms, mechanical properties:

	forms/process					Mechanical properties										Available forms										
Size	Rods Tubes			Tensile strength		Yield strength 0,2% offset or 0,5% E.U.L. ⁽¹⁾		Elongation 5,65 🗸	Hardness				r IZOD ⁽²⁾	Semi-finished products						par	parts					
	Extruded or forged or rolled	Drawn extruded	Drawn	Forgings or stamped	Mpa ≥; *= Mpa ≤	ksi ≥; * = Mpa ≤	Mpa ≿	ksi≥	≥ %	HB	HRB	HV5	HRC	Impact strength $KCU^{(1)}$ or IZOD	Rounds	Squares	Hexagones	Section	Tubes	Plates	Discs	Rings	Forged blanks	stamped	machined	
TER condition rods $\emptyset \le 25,4$ mm $\emptyset \le 1$ "					415	60	310	45	13	120					•										•	

All information is intended as a general guide to performance and application suitability. Page 2 sur 2



Do you want to know more, discuss a project with us or make a request for quotation?

Contact: contact@lebronze-alloys.com Web site: www.lebronze-alloys.com