

ELECTROLYTIC TOUGH PITCH COPPER – ALLOY 110

Alloy 110 copper, with high electrical and thermal conductivity, excellent ductility, hot and cold workability, plus good corrosion resistance and solderability. Rods, bars and sections supplied in the extruded / cold drawn condition.

TYPICAL APPLICATIONS:

Bus bars, electrical contacts, radio parts, transformers, switches, heat exchanger parts, terminals, rivets, cotter pins, nails, tacks, printing rolls, cooking utensils, plus various other electrical, mechanical, architectural and building components.

MACHINE RATING:

20% of free-machining brass

JOINING METHODS

Soldering:	Excellent
Brazing:	Good
Welding: Carbon Arc:	Fair
Welding: Shielded Arc:	Fair
Welding: other:	Not recommended

CHEMICAL COMPOSITION

Copper	(Cu)	99.90% min
Oxygen	(O)	0.025%

RELATED SPECIFICATIONS:

AS 1567	110
ASTM / UNS	C 11000
BS 1036	C 101
ISO	Cu-ETP
JIS H 3250	C1100

FABRICATED PROPERTIES:

Hot working:	Excellent
Cold working:	Excellent
Riveting & Peening:	Excellent
Thread rolling:	Excellent

Hot working range:	750°C – 875°C
Casting range:	1120°C – 1200°C
Melting range:	1065°C – 1083°C

HEAT TREATMENT

Annealing:	425°C – 750°C
Stress relieving:	150°C – 200°C

TYPICAL MECHANICAL PROPERTIES – RODS, BARS AND SECTIONS:

Condition	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness HV	Shear Strength MPa
Extruded/Drawn	130 - 260	250 - 300	25 - 40	80 - 110	130 - 185

Typical Mechanical Properties are for guidance only.

Good low temperature mechanical properties.

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