Copper alloys

Product Name Classification AWS Classification EN Classification DIN	Mechanical Properties Typical Values	Size (mm)	Approvals	Characteristics and Applications
LOTUS 51	-	3.15 x 350 4.0 x 350 5.0 x 350	-	Light coated electrode with graphite base. Designed for welding of Copper and Bronze. Deposit is porosity free & machinable. Suitable for cladding also. Dissimilar welding between MS, phosphorus bronze & brass possible. Applications: Pump casting, casting sleeves, impellers, marine components, bus bars, propellers etc.
UTP 32	YS : 300 MPa El : 25%	2.5 x 300 3.2 x 350 4.0 x 350	-	UTP 32 is a basic-coated tin-bronze stick electrode for joining and surfacing on copper tin alloys with 6 – 8 % Sn, copper-tin alloys and for weld claddings on cast iron materials and on steel. UTP 32 is easily weldable, good slag removal. The corrosion-resistance is corresponding to identical or similar base metals. Good gliding properties.
UTP 34 N	UTS : 650 MPa YS : 400 MPa El : 15%	2.5 x 350 3.2 x 350 4.0 x 350	DB	UTP 34 N is suitable for joinings and surfacings on copper-aluminium alloys, especially with high Mn-content as well as for claddings on cast iron materials and steel. Main application fields are in the shipbuilding (propeller, pumps, armatures) and in the chemical industry. The good friction coefficient permits claddings on shafts, bearings, stamps, drawing tools and all kind of gliding surface. UTP 34 N has excellent welding properties, spatter-free welding, good slag removal. The weld deposit has high mechanical values, a good corrosion resistance in oxidizing media, best gliding properties and a very good machinability. Crack resistant and pore-free.

Aluminium

Product Name Classification AWS Classification EN Classification DIN	Mechanical Properties Typical Values	Size (mm)	Approvals	Characteristics and Applications
UTP 48 DIN 1732: EL-AlSi12	UTS: 180 MPa YS: 80 MPa El: 5%	2.5 x 355* 3.2 x 355* 4.0 x 355* * available on request	-	UTP 48 is a aluminium stick electrode with 12% Si and a special coating for joining and surfacing on aluminium-silicon casting alloys with a Si-content up to 12% Si according to DIN 1725 e.g. 3.2581 G- AlSi12 | 3.2583 G- AlSi12(Cu) 3.2383 G- AlSi10Mg(Cu) | 3.2381 G- AlSi10Mg 3.2373 G- AlSi9Mg