TIG rods for repair of cracked material

Stainless Steels

Product Name Classification AWS Classification EN Classification DIN	Mechanical Properties Typical Values	Size (mm)	Approvals	Characteristics and Applications
UTP A 651 AWS A5.9: ER 312 EN ISO 14343-A: W 29 9	UTS: 750 MPa YS: 650 MPa El: 25% CVN Impact: 27J	1.2 x 1000 1.6 x 1000 2.0 x 1000 2.4 x 1000 3.2 x 1000	-	UTP A 651 is suitable for joining and surfacing of steels of difficult weldability, repair of hot and cold working steels, cushioning layers. The weld metal of UTP A 651 is scale resistant up to 1150°C. Crack and wear resistant, stainless and work hardening. Hardness of the pure weld metal: approx. 240 HB

Copper alloys

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UTP A 381 AWS A5.7: ER Cu EN ISO 24373: S Cu 1898 (CuSn1)	UTS: 200 MPa YS: 50 MPa El: 30%	1.6 x 1000 2.0 x 1000 2.4 x 1000 3.2 x 1000	-	UTP A 381 is used for oxygen free copper types according to DIN 1787 OF-Cu, SE-Cu, SW-Cu, SF-Cu. The main applicational fields are in the apparatus- and pipeline construction.
UTP A 387 AWS A5.7: ER CuNi EN ISO 24373: S Cu 7158 (CuNi30Mn1FeTi)	UTS: >360 MPa YS: >200 MPa El: >30%	1.2 x 1000* 1.6 x 1000 2.0 x 1000 2.4 x 1000 3.2 x 1000 *available on request	TÜV, GL	UTP A 387 is used for copper nickel alloys with up to 30% nickel according to DIN 17664, such as CuNi20Fe (2.0878), CuNi30Fe (2.0882). Chemical industry, seawater desalination plants, ship building, offshore technique. The weld metal of UTP A 387 is resistant to seawater and cavitation.

Gas shielded cored wires for repair, anti-wear and anti-corrosion

Low alloy steels

Product Name Classification AWS Classification EN Classification DIN	Mechanical Properties Typical Values	Size (mm)	Approvals	Characteristics and Applications
SK 600 - G DIN 8555: MF 6-GF-60-GP	Hardness as welded: 59 HRC	0.9 1.2 1.6	-	Martensitic steel alloy designed for welding in horizontal and vertical-up positions under gas shielding. Its resistance to friction and low stress abrasive wear with moderate impact is excellent. Shielding gas: Argon 82% + CO_2 18% or $C0_2$ 100%. Field of use: Bucket teeth, gravel pumps, conveyor chains, sliding metal parts, gear teeth, crusher hammers, rock drills.