UTP A 8051 Ti

Classifications

cast iron TIG rod

EN ISO 1071

S C NiFe-2

Characteristics and field of use

UTP A 8051 Ti is particularly suited for welding of ferritic and austenitic nodular cast iron as well as for joining it with unalloyed and high-alloyed steels, copper and nickel alloys. Buildup layers on grey cast iron qualities are also possible. Special applications are construction welding of ductile centrifugal casting tubes, such as joggles and flange joints, fittings, pumps.

The deposit is tough, crack resistant and easily machinable with cutting tools.

Typical analysis of rod and wire in %					
С	Mn	Ni	Ti	Fe	
0.1	3.5	55.0	0.5	balance	

Mechanical properties of the weld metal

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Yield strength R _e	Tensile strength R _m	Elongation A ₅	Hardness	
MPa	MPa	%	НВ	
> 300	> 500	> 25	approx. 200	

Welding instructions

Machine welding area to metallic bright. Preheat massive cast iron pieces to 150 - 250 °C. Weld preferably with TIG-pulsed arc, in order to reduce the dilution with the base metal.

Form of delivery and recommended welding parameters					
Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)			
1.6 x 1000*	DC (-)	11			
2.4 x 1000*	DC (-)	11			
*available on request					

GTAW – TIG rods

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