UTP A 8036 S

Classifications

Special alloy

nickel alloys

TIG rod

Characteristics and field of use

UTP A 8036 S is an alloy of the same composition as the base material and used for welding cast alloys with a nickel content of 34 - 40 % (INVAR qualities). The special operational area is the structural welding of housings made of plate and cast pieces with a nickel content of 36 %. Application field: air plane construction.

The weld metal contains high mechanical properties and a very low expansion coefficient.

Typical analysis in %							
С	Si	Mn	Р	S	Ni	Fe	
0.015-0.025	0.1	0.3	< 0.01	< 0.01	34.0-38.0	balance	
Mechanical properties of the weld metal							

Elongation A Impact strength Hardness Yield strength Tensile strength R_m K_{V} $R_{p0.2}$ J MPa % HΒ MPa > 280 > 350 > 25 > 80 appr. 150

Welding instructions

Thorough cleaning of welding area is essential. Welding parameters need to be adjusted to each individual application. Pay attention to a low heat input. The weld should be performed by applying a pulsed technique.

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

120