

UTP A 8036 S

solid wire

Classifications

Special alloy

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							
Yield strength R _{P0.2}	Tensile strength R _m	Elongation A	Impact strength K _v	Hardness			
MPa	MPa	%	J (RT)	НВ			
> 280	> 350	> 25	> 80	appr. 150			

Welding instruction

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 arc technique.

Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)
1.2	DC (+)	M 12