UTP A 73 G 3	Tool steels	
Classifications		TIG rod
EN 14700	DIN 8555	Material-No.
S Z Fe3	W3-GZ-45-T	Special alloy

Characteristics and field of use

UTP A 73 G 3 is, due to the excellent hot wear resistance and toughness, used for highly stressed hot working tools, which are simultaneously subject to high mechanical, thermal and abrasive loads, such as e.g. forging dies for hammers and presses, forging dies, Al-die cast moulds, plastic moulds, hot-shear blades and for filling engravings by using cheaper base metals.

Machining is possible with tungsten carbide tools.

Hardness of the pure weld deposit:					
untreated	42 – 46 HRC				
soft-annealed 780 °C	approx. 230 HB				
hardened 1030°C / oil	approx. 48 HRC				
tempered 600 °C	approx. 45 HRC				
1 layer on non-alloy steel	approx. 35 HRC				

Typical analysis of rod and wire in %							
С	Si	Mn	Cr	Мо	Ti	Fe	
0.25	0.5	0.7	5.0	4.0	0.6	balance	

Welding instructions

Machine welding area to metallic bright. Cracks in the base material have to be gouged out completely. Preheating temperature of 400 °C on tools should be maintained. Stress relief/ annealing is recommended at 550 °C.

Approvals

TÜV (No. 01896), GL

Form of delivery and recommended welding parameters

Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)			
1.2 x 1000	DC (-)	11			
1.6 x 1000	DC (-)	11			
2.0 x 1000	DC (-)	11			
2.4 x 1000	DC (-)	11			
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This product is also available as solid wire for MIG/MAG.