

QuFe13

(W.-Nr.: special Alloy)

is, due to the excellent hot wear resistance and toughness used for highly stressed hot working tools, which are simultaneously subjected to high mechanical, thermal and abrasive loads, such as forging dies and hammers, press stamps, die cast moulds, hot shear blades and for filling engravings by using cheaper base metals.

Recommended for basic materials:

1.2343, 1.2344, 1.2082, 1.2083, 1.2367-1.2606

Rework

The weld can be heat treated, nitrated, chrome-plated CVD coated, polished and machined

Material analysis in %

C	Si	Mn	Cr	Mo	Ti	Fe
0,25	0,5	0,7	5,0	4,0	0,6	Rest

(test certificates upon request.)

Standard / Mechanical values

Ø	N / mm ²	elongation AL100	Items on stock	
			rods	spools
0,2	081	1,70	X	X
0,25	-	-	-	-
0,3	-	-	-	-
0,4	988	1,80	X	X
0,5	1115	3,00	X	X
0,6	1032	2,90		X
0,7	950	2,60	X	
0,8	835	4,20	X	X

hardness after welding

Ø	HRC	base material
1. layer		
2. layer		
3. layer		

(results on request)

Following standard:

Laser welding wires

rods: 333 mm / 1.000 mm

spool: K80 / K125 / K250 / SH253 / MA125

The reported values were determined by the manufacturer and / or by a neutral Laboratory determined. For the accuracy we can not guarantee)