

QuFe11

(W.-Nr.: special alloy)

is, due to its excellent hot wear resistance and toughness used for tough, hot wear resistant buildups on hot working tools and structural parts, which are subjected to impact, compression and abrasion at elevated temperatures, such as forging dies and hammers, die cast moulds, hot cutting knives, guides, vacuum chambers, continuous casting rolls.

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

Possible Hardness: 38 – 42 HRC.
Dependent on layers and hardness of the base material

Recommended for:

1.2343, 1.2344, 1.2367 - 1.2606, 1.2764 – 1.2767

Rework

The weld can be eroded, structured, polished, chrom-plated, etched, nitrated, annealed and hardened.

Material analysis in %

C	Si	Mn	Cr	Mo	Fe
0,1	0,4	0,6	6,5	3,3	Rest

(test certificates upon request.)

Standard/Mechanical Values

Ø	N / mm ²	elongation AL100	Items on stock rods	spools
0,2	1108	1,90	X	X
0,3	1129	2,00	X	X
0,4	1003	2,00	X	X
0,5	431	2,60	X	X
0,6	1029	3,00	X	X
0,7	-	-	-	-
0,8	996	2,70	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)