Data sheet

QuFe21

(W.-Nr. special Alloy without copper coating)

is 100 % comparable to the QuFe20.
But the QuFe21 has no copper coating. In this case there are advantages for highly polished moulds. Furthermore it is used for highly wear resistant buildups on machine parts and tools which are subject to heavy abrasion and compression combined with moderate impact at elevated temperatures, such as slide, guide and sealing surfaces.
Low wear when using fiber-glass re-enforced plastics.
Workable by grinding with tungsten carbide tools

Recommended for:

1.2082, 1.2083, 1.2311, 1.2312, 1.2343, 1.2344,

1.2367-2606, 1.2764 – 2767, 1.2842

Rework

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

Material analysis in %

C	Si	Mn	Cr	Mo	Ti	Fe
0,35	0,3	1,2	7,0	2,0	0,3	Rest

(test certificates upon request.)

Standard/Mechanical Values

Ø	N / mm²	elongation AL100	Items on stock rods	spools
0,2	-	-	-	-
0,3	442	3,00	X	X
0,4	347	2,70	X	X
0,5	1242	2,20	X	X
0,6	1098	2,80	X	X
0,7	-	-	-	-
0,8	961	3,50	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)