

## QuFe72

EN14700 S ZFe5; DIN 8556; W/MSG 3-GZ-350-T; M.-No.: 1.6356

is used for repair, preventive maintenance and production of highly stressed cold and hot working tools, such as punching tools, cold shears for thick materials, drawing-, stamping- and trimming tools, hot cutting tools, Al-die cast moulds, plastic moulds, cold forging tools. The weld deposit is, in as-welded condition, easily machinable and the subsequent age hardening optimizes the resistance to wear and alternating temperatures.

### Hardness of the pure weld metal

Untreated: 32 - 35 HRC  
After age hardening 3 - 4 h / 480° C 50 - 54 HRC

### Recommendation for

Cold- and warm working steel with high stress

### Rework

The weld can be age hardened, nitrated, chrome-plated, CVD-coated, polished and machined

### Material analysis in %

C	Mo	Ni	Co	Ti	Al	Fe
0,02	4,0	18,0	12,0	1,6	0,1	Rest

(test certificates upon request.)

### Standard/Mechanical Values

Inert gas	Argon	Values of the pure weld metal
Temperature	20°C	
Yield strength Re	MPa	
Tensile strength Rm	MPa	980
Elongation A (Lo = 5do)	%	20
Hardness untreated	HB	See above

### 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. We cannot guarantee for the accuracy.