Data sheet

QuFe13

EN 14700: S Fe 8; (M.-No. ~1.2367)

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 aluminum die casting moulds and resin molds. These alloys guarantee a good resistance against corrosive acting plastic. Also when multi-layer welding, the weld is free of cracks. Machined with carbide tools.

Possible Hardness: 42 – 46 HRC.
Dependent on layers and hardness of the base material.
Only under certain conditions can it be hardened.

Recommendation for basic materials

1.2343, 1.2344, 1.2082, 1.2083, 1.2367,1.2606

Rework

The weld metal can be polished and heat treated.
It can be nitrated, chrome-plated, CVD coated, 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

Inert gas	Argon	Values of the pure weld metal
Temperature	20°C	
Yield strength Re	N/mm²	
Tensile strength Rm	N/mm²	
Elongation A (Lo = 5do)	%	
Hardness untreated	HRC	42 - 46

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.