Data sheet

# QuFe12

*EN 14700: S Fe 3; DIN 8555 M/WSG3-Gz-45-T (M.-No. 1.2567)*

is suitable for layer welding of and repairs to warm-working tools made from low-alloyed and non-alloyed steels. The weld is stable at temperatures, has a high wear resistance and annealing durability.
The microstructure of the un-annealed weld is martensitic with remains of austenite and carbides.

Possible Hardness: 42 - 48 HRC.
Dependent on layers and hardness of the base material.

## *Recommendation for*

1.2343, 1.2344, 1.2367 - 1.2606, 1.2764 – 1.2767

## *Rework*

The weld can be heat treatable, nitrated, chrome-plated, polishable and machined.

## *Material analysis in %*

| C | Si | Mn | Cr | V | W | Fe |
|---|---|---|---|---|---|---|
| 0,3 | 0,3 | 0,3 | 2,3 | 0,5 | 4,0 | 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 - 48 |

## *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.