

Qu17-4PH

EN ISO 14343-B: 630 17-4Ph; AWS/SFA 5.9 : ER630 (17-4PH), M.- No.: ~1.4542

is a non-rusting martensitic precipitation hardening Cr-Ni-Cu-steel with a high tensile strength and toughness. Through cold forming and subsequent aging, the tensile strength can be increased. The basic material is used in the aerospace industry, machine building industry, power engineering and measuring & control technology.

Reachable hardness can be 37-40 HRC, depends on the rework and welding layers.

Recommended for:

1.4540 GX4CrNiCuNb16-4, 1.4542 X5CrNiCuNb16-4, 1.4548 X5CrNiCuNb17-4-4

Rework

Material-typical treatment

Material analysis

C	Si	Mn	Cr	Ni	Cu	Nb	Fe
0,04	0,25	0,4	15,30	4,50	3,25	0,30	Rest

(test certificates upon request.)

Standard/Mechanical Values

Inert gas	Argon	Values of the pure weld metal
Temperature	20°C	
Yield strength Re	MPa	850
Tensile strength Rm	MPa	900
Elongation A (Lo = 5do)	%	10
Hardness untreated	HB	320

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.