Data sheet

QuNi24

EN ISO 18274 S Ni 6625; AWS/ASME SFA-%.14 ER-NiCrMo-3; Din 1736 SG NiCr 21 Mo 9 Nb
M. -No. 2.4831, ~Inconel625

is suitable for welding similar high strength, high corrosion resistant nickel based alloys. It is possible to join ferrite and austenitic steels and to build up steels. This alloy is used in ranges of aerospace and chemical industry. The weld is characterized by good long term working life, corrosion resistance, clink and heat crack guaranty. It shows a high stability and toughness, also at temperatures up to 1100°C. Tough at sub-zero temperature up to -196°C. An extraordinary durability is achievable through the alloy elements Mo and Nb in the NiCr-matrix. Austenitic structure is non-convertible.

Recommendation for

1.4529, 1.4539, 2.4856, 2.4858, ISO 20172: NiCr22Mo9Nb with group 1.1/ 1.2

Rework

material-typical treatment

Material analysis in %

C	Si	Mn	Cr	Mo	Nb	Fe	Ni
<0,03	0,25	0,20	22,0	9,0	3,5	1,0	Basis

(test certificates upon request.)

Standard/Mechanical Values

Inert gas	Argon	Values of the pure weld metal
Temperature	20°C	
Yield strength Re	N/mm²	500
Tensile strength Rm	N/mm²	760
Elongation A (Lo = 5do)	%	35
Hardness untreated		

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.