



Characteristics and scope of application

- Filler metal for Alloy C4 and other NiCrMo-Alloys
- Recommended for dissimilar welds of wrought and cast grades of the above mentioned alloys to mild steels
- Excellent resistance to crevice and pitting corrosion

Standard designations

DIN EN ISO 18274	AWS A5.14	DIN Mat.-No.
S Ni 6455 (NiCr16Mo16Ti)	ERNiCrMo-7	2.4611

Typical chemical composition of filler metal

	C	Cr	Mo	Ni	Ti	Fe	W
Mass %	<0.01	16	16	Bal.	0.5	0.3	0.2

All weld metal properties (min. values at rt)

Heat treatment	Yield strength	Tensile strength	Elongation	Impact toughness	
	Rp0.2	R _m	A ₅	ISO-V	
as welded	400 MPa	690 MPa	35%	90 J	

Welding instructions

Polarity	Shielding gas acc. to DIN EN ISO 14175
DC / +	I1, I3, Z (ArHeHC-30/2/~0.1)
DC / -	I1, I3, R1 (max. 5% H ₂)
Low heat input required. Stringer bead technique recommended. Reducing shielding gases are preferable for welding of corrosion resistant alloys.	
Base materials	
2.4610 – NiMo16Cr16Ti – Alloy C4 – UNS N06455	
1.0345 - P235 GH - UNS K01501	

Packaging (tolerances acc. to DIN EN ISO 544)

Diameter (mm)		kg
1.6 / 2.0 / 2.4 / 3.2	X 1000 mm	5 / 10
0.8 / 1.0 / 1.2	BS 300 spool	15
1.6 / 2.4 / 3.2	K 415 / K 435 spool	25

Approvals on request