



Characteristics and scope of application

- Filler metal for Alloy 718
- Age hardenable weld metal, heat treatment required for best properties
- Chemical composition optimized for lowest hot cracking susceptibility

Standard designations

DIN EN ISO 18274	AWS A5.14	DIN Mat.-No.
S Ni 7718 (NiCr19Fe19Nb5Mo3)	ERNiFeCr-2	2.4667

Typical chemical composition of filler metal

	C	Si	Cr	Ni	Mo	Fe	Nb	Ti	Al
Mass %	0.05	0.15	18.5	Bal.	3.0	18.0	5.0	1.0	0.5

All weld metal properties (min. values at rt)

Heat treatment	Yield strength	Tensile strength	Elongation	Impact toughness	
	R _{p0.2}	R _m	A ₅	ISO-V	
as welded	600 MPa	800 MPa	25%	-	-
heat treated (see below)	1000 MPa	1200 MPa	13%	-	-

Welding instructions

Polarity	Shielding gas acc. to AWS A5.32
DC / +	SG-A, SG-AHe, SG-A-G (He 30% - H 2% - C ~0.1)
DC / -	SG-A, SG-AHe, SG-AH (max. 5% H ₂)

Low heat input and interpass temperature < 302°F. Stringer bead technique recommended.
Post weld heat treatment 1325°F / 6h, furnace cooling 90°F/h to 1150°F / 8h, air cooling.

Base materials
2.4668 – NiCr19Fe19Nb5Mo3 – Alloy 718 - N07718
2.4669 – NiCSG-AH5Fe7TiAl – Alloy X-750 - N07750
Alloy 706 – N09706

Packaging (tolerances acc. to AWS A5.02)

Approvals on request

Diameter (in)		lbs/PU
1/16 - 1/8	x 36 in	11 / 22
0.8 / 1.0 / 1.2	BS 300 spool	33
1.6 / 2.4 / 3.2	K 415 / K 435 spool	55