

ALLOY 59

Comparable specifications

ASME SFA A 5.14: ERNiCrMo-13
EN ISO 18274: Ni 6059 - NiCr23Mo16
BS 2901: Pt 5 NA 48
Werkstoff Nr.: 2.4607

Typical applications*

* Illustrative, not-exhaustive list

This grade may be used for welding of:

- low-carbon nickel-chromium-molybdenum alloys and chromium-nickel-molybdenum austenitic stainless steels;
- the clad side in steel clad with low-carbon nickel-chromium-molybdenum alloy;
- low-carbon nickel-chromium-molybdenum alloys to steel and other nickel-base alloys;
- duplex, super-duplex and super-austenitic stainless steels;
- applications in chloride environment.

Weldable base materials*

* Illustrative, not-exhaustive list

Alloy 22, Alloy 625, Alloy 276, Alloy 686

All-weld metal mech. properties*

* For reference only values

Tensile strength (Rm): $\geq 760 \text{ N/mm}^2$

Chemical composition*

* For reference only values

C	Mn	Fe	P	S	Si	Ni	Co	Al	Cr	Mo
max	max	max	max	max	max	56.00	max	0.10	22.00	15.00
0.010	0.50	1.50	0.020	0.005	0.08	min	0.30	0.40	24.00	16.50

Standard packaging data*

Welding process	Product type	Ø mm (inches)	Packing type	Weight kg (lbs)	Length mm (inches)
GMAW **	filler wire	0.80 - 1.20 (0.030 - 0.047)	spools BS300 / D300	15 (33)	n.a.
GTAW **	filler rod	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)
SAW **	filler wire	1.60 - 4.00 (1/16 - 5/32)	basket rims B450	25 (55)	n.a.

* Other sizes and packing types are available upon request

** GMAW: gas metal arc welding; GTAW: gas tungsten arc welding; SAW: submerged arc welding

Marking

Each filler rod for GTAW welding is durably marked with an identification traceable to the unique product type. Welding filler materials wound on spools or in coils are durably marked on the coil or spool with an identification traceable to the unique product type.

The outside of each unit package is suitably labelled with at minimum the following data: grade, diameter, heat, lot no., classifications.

Customized labels are available upon request.

Lot classification

All our productions fulfil the **Class S3** requirements acc. to EN ISO 14344.