



MW- 625 (ERNiCrMo-3)

Comparable specifications

ASME SFA A 5.14: ERNiCrMo-3
EN ISO 18274: Ni 6625 - NiCr22Mo9Nb
BS 2901: Pt 5 NA 43
Werkstoff Nr.: 2.4831

Description and applications*

* Illustrative, not-exhaustive list

This grade may be used for:

- welding of nickel-chromium-molybdenum alloys to them selves, to steel a/o to other nickel base alloys;
- cladding of steel with nickel chromium-molybdenum weld metal;
- welding of the clad side of joints in steel with nickel-chromium-molybdenum alloy;
- joining of other nickel alloys where micro-fissuring is problematic;
- applications in the chemical process industry, in marine engineering and within pollution control equipments;
- applications where the operative temperature ranges from cryogenic to 540°C;
- use in high-grade plant/engineering (primarily for the petro-chemical industry).

Weldable base materials*

* Illustrative, not-exhaustive list

Inconel 601, Incoloy 800, Alloy 625, Alloy 825, Alloy 926

All-weld metal mech.properties*

* For reference only values

Tensile strength (Rm): $\geq 760 \text{ N/mm}^2$
Elongation: $\geq 35\%$

Yield Strength (Rp_{0.2}): $\geq 415 \text{ N/mm}^2$
Charpy-V Impact (R.T.): $\geq 100 \text{ J}$

Chemical composition*

* For reference only values

C	Mn	Fe	P	S	Si	Cu	Ni	Co	Al	Ti	Cr	Nb+Ta	Mo
max	max	max	max	max	max	max	60.00	max	max	max	20.00	3.15	8.00
0.10	0.50	5.00	0.015	0.015	0.50	0.50	min	1.00	0.30	0.40	23.00	4.15	10.00

