

DATA SHEET N. N10-001**DAIKOWT 625****GTAW**

Description / Alloy type: Solid rods for Nickel base 625 alloy

Specifications: **AWS A5.14** **ASME 2C** SFA-5.14 **EN ISO 18274 (num. / chem.)**
ERNiCrMo-3 ERNiCrMo-3 Ni 6625 / NiCr22Mo9Nb

Approvals: TÜV

Applications: It is designed to match the composition and properties of 625. This alloy is used for the high temperature strength and structural stability and is also used for its resistance to general corrosion, pitting, crevice and stress corrosion cracking in severe chloride media. Useful proprieties from -269°C to above 1000°C are achieved.

It is used for welding of alloy 625, alloy 825, alloy 25-6MO, and a range of high alloy austenitic and super austenitic stainless steels. It is also used for surfacing of steel, for welding 9% Ni steels, and for welding various corrosion-resistant alloys such as alloy 20. Applications include furnace equipment, petrochemical and power generation plants and also overlays on pumps, valves and shafts in offshore and marine environments where high pitting resistance (PRE = 50) is essential. Widely used in oil & gas production and process.

Materials to be welded: **Matching Alloy 625**
ASTM: UNS N06625; A494 CW-6MC (cast);
DIN: 2.4856;
Proprietary Alloy: Inconel™ 625; Nicrofer™ 6020hMo e 6022hMo.

Other alloysHigh Nickel Alloys: Inconel 601, Incoloy 800H Incoloy 825;Superaustenitics: UNS S31254, 254SMO; 904L.Cryogenic: 9% Ni steels.Composition:
(weight %)

	C	Mn	Fe	S	P	Si	Cu	Ni	Al	Ti	Cr	Nb	Mo
Min	-	-	-	-	-	-	-	58	-	-	20	3.15	8
Max	0.010	0.5	5	0.015	0.020	0.50	0.5	Bal.	0.4	0.4	23	4.15	10
Typ	0.005	0.05	0.3	0.001	0.003	0.10	0.1	65	0.10	0.2	22	3.6	9

Typical parameters:

	TIG
Shielding	Argon
Current	DC-
Diameter	2.4 mm
Parameters	100A, 12V

All-weld properties:

As welded	Typical TIG
Tensile strength [MPa]	735
0.2% proof stress [MPa]	500
Elongation [%]	60
Impact Energy -196°C [J]	80

Other products: GMAW wire, SAW wire, SMAW electrodes, FCAW wire and STRIP.

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