

STAVINOX TIG 625

TIG WELDING WIRE NICKEL AND NICKEL ALLOY

Classification :

AWS A5.14: ER NiCrMo-3

EN 18274: S Ni 6625 (NiCr22Mo9Nb)

Description: STAVINOX TIG 625 is an S Ni 6625 / ER NiCrMo-3 type solid TIG welding wire depositing Ni-22Cr9Mo3.5Nb weld metal ,suitable for use with inert shielding gases. STAVINOX TIG 625 is used for the welding of highly corrosion-resistant Cr-Mo-Nickel base alloys such as alloy 625, alloy 825 and similar alloys. Also suitable for molybdenum alloyed corrosion-resistant steels with e.g. 7% Mo such as X1NiCrMoCuN25-20-7 and cryogenic-tough nickel steels . In sulphur-free atmospheres the deposit is non-scaling <1200°C, in sulphurous atmospheres the weld metal can be used <500°C. The dissimilar coefficient of thermal expansion between austenitic and ferritic steels means, that STAVINOX TIG 625 is also used for joining ferritic to austenitic steels (dissimilar) with operating temperatures or postweld heat treatment > 300°C. Also used for cladding of steels.

STAVINOX TIG 625 is very resistant to stress corrosion cracking and pitting corrosion in a range of media including phosphoric acid, organic acids, sea water and polluting environments. Cryogenic toughness down to -196°C. Even at elevated temperatures only limited carbon diffusion in the weld metal thus avoiding crack susceptible carbides in the weld interface of dissimilar joints.

Materials to be welded

UNS N06625; UNS N08825

2.4856; 2.4839 .

Chemical Composition (%)

C	Mn	Si	Cr	Ni	Mo	Cu	S	P	Nb+Ta	Fe	Al	Ti	Cr	Others
0.10	0.50	0.50	20.00	58.00	8.00	0.50	0.015	0.020	3.15-4.15	5.00	0.40	0.40	20.00	0.50
max	max	max	-23.00	min	-10.00	max.	max.	max.		max	max	max	23.00	max

All Weld Mechanical Properties (Gas Test-100%Ar)

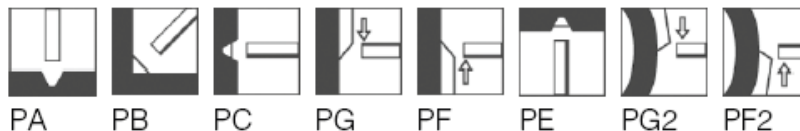
Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation A5 (%)	Impact Energy ISO-V(J)	
			20°C	-196°C
≥ 460	≥ 720	≥ 30	≥ 120	≥ 40

Current Conditions: - DC (-)

Shielding Gas : EN ISO 14175 : I1

Storage: - Keep dry and avoid condensation.

Welding Position:-



Packing Data

Size(mm) DxL	1.60 x 1000	2.00 x 1000	2.40 x 1000	3.20 x 1000	4.00 x 1000
Net wt. per tube(kg)	5	5	5	5	5
Net wt. per Box(kg)	20	20	20	20	20