



CEWELD ERTi-12 Tig

TYPE Solid drawn Titanium Grade 12 welding wire .

TOEPASSINGEN This alloy finds his applications in chemical industry and offers excellent Weldability. Often recommended for pressure vessels and piping for its superior strength alone.

EIGENSCHAPPEN ER Ti-12. Grade 12 (Ti 0.8Ni0.3Mo) is an intermediate strength grade originally developed to provide enhanced crevice-corrosion resistance in high temperature brines, but at lower cost than Grade 7. The improved performance is believed to be the result of Ni⁺⁺ and Mo⁺⁺ ions that alter the surface electrochemistry of the material in the crevice or under a surface deposit. Grade 12 has better elevated temperature properties than Grade 2 or 3 and is sometimes specified for pressure vessels or piping for its superior strength alone.

CLASSIFICATIE

AWS	A 5.16: ERTi-12
EN ISO	24034: S Ti 3401 / TiNi0,7Mo0,3
W.Nr.	~3.7105
F-nr	51

GESCHIKT VOOR 3.7105
Titanium grade 12, Grade 7, Grade 2 and Grade 3
R56400
Ti3AL-1,5Mn

GOEDKEURINGEN

LASPOSITIES



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	H	N	O	Fe	Ni	Ti
0.02	0.005	0.01	0.12	0.1	0.8	Rem.

MECHANISCHE WAARDEN

Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	345	480	20	HRc

HERDROGEN Not required

GAS ACC. EN ISO 14175 I1



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ERTI-12 TIG 1,6 X 1000MM	Packaging	KG/unit	EanCode
	Tube	2,5	8720663406477
ERTI-12 TIG 2,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	2,5	8720663406484
ERTI-12 TIG 2,4 X 1000MM	Packaging	KG/unit	EanCode
	Tube	2,5	8720663406491
ERTI-12 TIG 3.2 X 1000MM	Packaging	KG/unit	EanCode
	Tube	2,5	8720663406507