CEWELD ERTi-12 Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

Titanium Tig welding wire grade 12

APPLICATIONS

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

PROPERTIES

ERTi-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.

CLASSIFICATION

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

SUITABLE FOR

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

APPROVALS

No Approvals Found

WELDING POSITIONS

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.

ALL WELD MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ MPa	Rm MPa	A5 (%)
As Welded /	345	480	20

REDRYING TEMPERATURE

Not required

GAS ACCORDING EN 14175

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