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
W.Nr.	~3.7105
F-nr	51

SUITABLE FOR

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

APPROVALS

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.

MECHANICAL PROPERTIES

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

REDRYING

Not required

GAS ACC. EN ISO 14175

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CEWELD ERTi-12 Tig

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