

# CEWELD ERTi-12 Tig

**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 (%)**

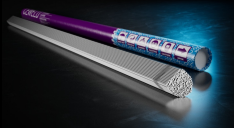
C	H	N	O	Fe	Ni	Ti
0.02	0.005	0.01	0.12	0.1	0.8	Rem.

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded	345	480	20	HRc

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1



# 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