

# CEWELD ERTi-12

**TYPE** Titanium Mig 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.

**PROPRIÉTÉS** 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

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

**AGRÉMENTS**

**POSITIONS DE SOUDAGE**       

ANALYSE CHIMIQUE TYPIQUE DU MÉTAL DE SOUDURE (%)	C	Ni	H	N	O	Fe	Ti
	0.02	0.8	0.005	0.01	0.12	0.1	Rem.

PROPRIÉTÉS MÉCANIQUES	Heat Treatment	R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
	As Welded	345	480	20	HRc

**ETUVAGE** Not required

**GAS ACC. EN ISO 14175** I1