


# CEWELD ERTi-12

TYPE	Titanium Mig welding wire grade 12						
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	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 <sup>++</sup> and Mo <sup>++</sup> 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					
GESCHIKT VOOR	3.7105 Titanium grade 12, Grade 7, Grade 2 and Grade 3 R56400 Ti3AL-1,5Mn						
GOEDKEURINGEN							
LASPOSITIES							
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	C	Ni	H	N	O	Fe	Ti
	0.02	0.8	0.005	0.01	0.12	0.1	Rem.
MECHANISCHE WAARDEN	Heat Treatment		R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness	
	As Welded		345	480	20	HRc	
HERDROGEN	Not required						
GAS ACC. EN ISO 14175	I1						