

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.

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

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 WELD METAL (%)

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

MECHANICAL PROPERTIES

Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	345	480	20	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 I1