

# CEWELD ERTi-1

TYPE Solid Titanium welding wire Grade 1 (purest grade). ERTi-1

APPLICATIONS CEWELD ERTi-1 is the lowest strength unalloyed (or Commercially Pure-CP) grade. Used in applications where ductility is paramount, such as explosive cladding, loose linings, expanded metal, and deep drawing applications. It is also used in electrolytic applications like coated anode substrates for production of chlorine and sodium chlorate. It is the purest grade and is **suitable for welding Titanium grade 1, 2, 3 and 4**. With the restriction that the mechanical properties are much less than Grade 2, 3 and 4.

PROPRIÉTÉS The weld deposit of CEWELD ERTi-1 is ductile and offers excellent corrosion resistance in oxidizing environments. The purity and corrosion resistance makes the alloy a preferred choice in many applications to prevent or solve problems. The wire is cleaned in a very special way to obtain porosity free and a ductile weld deposits

CLASSIFICATION

AWS	A 5.16: ERTi-1
EN ISO	24034: S Ti 0100 / Ti99,8
W.Nr.	3.7026
F-nr	51

CONVIENT POUR 3.7025, ~3.7035, ~3.7065  
Titanium Grade 1, ~ 2, ~3 and ~4.

AGRÉMENTS CE

POSITIONS DE SOUDAGE



ANALYSE CHIMIQUE  
TYPIQUE DU MÉTAL DE  
SOUDURE (%)

C	H	N	O	Ti	Fe
0.02	0.004	0.01	0.05	Rem.	0.05

PROPRIÉTÉS MÉCANIQUES

Heat Treatment	R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded	250	320	24	HRc

ETUVAGE Not required

GAS ACC. EN ISO 14175 I1