

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.

PROPERTIES 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

SUITABLE FOR 3.7025, ~3.7035, ~3.7065
Titanium Grade 1, ~ 2, ~3 and ~4.

APPROVALS CE

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

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

MECHANICAL PROPERTIES

Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	250	320	24	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 I1