CEWELD ERTi-1 Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

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

APPLICATIONS

CEWELD ERTi-1 is the purest and lowest strength unalloyed titanium grade. This grade is used in applications where maximum formability and ductility are required.
Typical applications include explosive cladding, loose linings, expanded metal constructions, and deep drawing applications.
In addition, Grade 1 is widely used in electrochemical applications such as coated anode substrates for the production of chlorine and sodium chlorate.

PROPERTIES

The weld metal of CEWELD ERTi-1 is highly ductile and offers excellent corrosion resistance, particularly in oxidizing environments.
Due to its high purity and outstanding corrosion resistance, this alloy is a preferred choice for applications where corrosion issues must be prevented or resolved.
The welding wire undergoes a special cleaning process to ensure a high-quality weld deposit with very low porosity, optimal ductility, and reliable corrosion resistance.

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
Titan Grade 1, ~Grad2, Grad3, ~ Grad4

APPROVALS

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

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

MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness
As Welded	250	320	24	HRc

REDRYING

Not required

GAS ACC. EN ISO 14175

I1

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ERTI-1 TIG 1,2 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406330

ERTI-1 TIG 1,6 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406347

ERTI-1 TIG 2,0 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406354

ERTI-1 TIG 2,4 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406361