CEWELD ERTi-5 Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

Solid Titanium welding wire Grade 5 with extremely high strength

APPLICATIONS

CEWELD ERTi-5 Grade 5 is designed for applications requiring very high mechanical strength, low weight, and excellent corrosion resistance.
The alloy is used across a wide range of industries, including aerospace, shipbuilding, chemical industry, process industry, power generation, oil and gas extraction, medical applications, and the sports industry.
Typical applications include aircraft components such as landing gear, wing spars, and compressor blades. In addition, Grade 5 is used in corrosive environments where higher strength is required, such as shafts, high-strength bolting, and keyways.

PROPERTIES

CEWELD ERTi-5 Grade 5 (Ti-6Al-4V) combines excellent weldability with very high mechanical strength and can be further optimized through heat treatment to achieve higher strength or toughness.
Its corrosion resistance is comparable to Grade 2, while offering significantly superior mechanical properties. This makes the alloy particularly suitable for applications where both strength and corrosion resistance are critical.
The weld metal is ductile and provides excellent resistance to corrosion in oxidizing environments.
The unique combination of high strength, low weight, and corrosion resistance makes Grade 5 a preferred material for demanding applications where reliability and long service life are essential.
The welding wire undergoes a specialized cleaning process to ensure a high-quality weld deposit with minimal risk of porosity and optimal ductility of the weld.

CLASSIFICATION

AWS	A 5.16: ERTi-5
EN ISO	24034: S Ti 6402 / TiAl6V4B
W.Nr.	3.7165
F-nr	51

SUITABLE FOR

3.7164, 3.7165
Titanium grade 5,
UNS R56400, AMS 4954, TiGr5, Ti6Al4V, AMS4911

APPROVALS

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	V	H	N	O	Al	Ti
0.02	4	0.01	0.01	0.18	6.2	Rem.

MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness
As Welded	810	890		HRc

REDRYING

Not required

GAS ACC. EN ISO 14175

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ERTI-5 TIG 1,0 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406545

ERTI-5 TIG 1,2 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406552

ERTI-5 TIG 1,6 X 1000MM

Packaging	KG/unit	EanCode
Tube	2.5	8720663406569

ERTI-5 TIG 2,0 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406576

ERTI-5 TIG 2,4 X 1000MM

Packaging	KG/unit	EanCode
Tube	2,5	8720663406583