

CEWELD ERTi 10-2-3

TYPE Titanium Tig welding wire grade 10-2-3.(UNS R6410)

APPLICATIONS CEWELD Ti 10-2-3 is developed for high-strength, deep-hardenable forging alloys used for airframes and engines.

Current applications for CEWELD Ti 10-2-3 include numerous aircraft components, including landing gear components for Aerospace, Oil & Gas, Automotive, Marine, Chemical Processing, Medical Devices

PROPERTIES CEWELD Ti 10-2-3 is metallurgically a near-beta alloy. It offers an excellent strength-toughness combination. CEWELD Ti 10-2-3 has a very high fatigue strength and is well suited for safe-life constructions. CEWELD Ti 10-2-3 has improved corrosion resistance for parts that need to withstand corrosion or saltwater.

CLASSIFICATION

SUITABLE FOR AMS 4983, AMS 4984, AMS 4986, AMS 4987.

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	O	N	H	V	Ti	Fe	Al
0.015	0.07	0.01	0.005	10	Rem.	1.8	3

MECHANICAL PROPERTIES

Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
580°C±15°C 8h	1070	1190	12	HRc

REDRYING

Not required

SOLUTION HEAT TREATMENT

50°-100°F (28°-56°C) below beta Treatment transus for a minimum of 30 minutes, then water quench (air cool may be used for parts less than 1 inch [2.5cm] thick)

GAS ACC. EN ISO 14175

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