

Inweld Ti Grade 1

AWS A5.16 ERTi-1

Chemical Composition of Inweld Ti Grade 1

Fe	C	O	H	Ti	Mn	Si	P	S	N	Cu	Other
0.100	0.03	0.100	0.005	Balance	---	---	---	---	0.015	---	---

Single values are maximum unless otherwise specified.

Description and Applications

ERTi1, ERTi2, ERTi3, and ERTi4. These alloys are referred to as commercially pure (C.P.) titanium with the level of impurities and mechanical properties increasing slightly from ERTi-1 to ERTi-4. C.P. Grade 2 (Equivalent to ERTi-2) is the most widely used titanium alloy for industrial applications because of its good balance of strength, formability, and weldability. Commonly used in seawater and brackish water exchangers, chemical process heat exchangers, pressure vessels and piping systems, pulp bleaching systems, air pollution control scrubbers, and electrochemical and chemical storage tanks. These grades also have some uses in the aerospace industry.

Typical Weld Metal Properties

	<u>AWS Spec</u>
Tensile Strength:	35,000 psi
Yield Strength:	25,000 psi
Elongation:	24%

INWELDCORPORATION.COM

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