ERTi-23 (6Al-4V ELI) Data Sheet

Specifications:

AWS A5.16 ERTi-23
AMS 4956
MSRR9500/78
UNS R56402

Properties:

Tensile Strength: 130,000 psi
Yield Strength: 120,000 psi
Elongation at Break: 10%

Description:

ERTi-23, titanium Grade 23 is also known as TI 6AL-4V ELI. This alloy is a filler metal similar to 6Al-4V in chemical composition, except for the extra low interstitial (ELI) gases.With the ELI gases controlled ERTi-23 has an higher increase in fracture toughness. This alloy is commonly used to weld applications of turbine engines, airframes, liquid hydrogen tanks, etc. that require an alloy with higher ductility and fracture toughness.

Available in multiple sizes and diameters in wire and spool.

Chemical Composition (Wt%):

Fe	O	C	N	H	Ti	Al	V
0.20	0.03-0.11	0.03	0.012	0.005	REM	5.5-6.5	3.5-4.5

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.