

## UNITED STATES WELDING CORPORATION

| USW ALLOY DESIGNATION AND BRIEF DESCRIPTION      | 15-3-3-3 Ti GTAW SOLID BARE WELDING WIRE TITANIUM BASE   | ISO 9001 AS 9100  Revision A  DATA SHEET 4914  |
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| CROSS-REFERENCE<br>CONFORMANCE<br>SPECIFICATIONS | AMS 4914 15 V 3 Cr 3 Al 3 Sn<br>UNS R58153   |  |
| METALLURGICAL<br>BACKGROUND<br>INFORMATION       | Alloy 15-3-3-3 Ti is a solid welding wire product to remove standard drawing lubricants.  This metastable beta Ti alloy is a high strength, applications.  |  |
| MATERIALS TO BE WELDED APPLICATION AND ADVICE    | AMS 4914, 4922  Pure argon gas shielding and ultra clean weldmental A trailing gas shield and underside shielding is referred.   |  |
| WIRE CHEMISTRY<br>WT%                            | Aluminum       2.50       3.50         Vanadium       14.0       16.0         Iron       -       0.25         Oxygen       -       0.13         Carbon       -       0.05         Chromium       2.50       3.50         Tin       2.50       3.50 | Nitrogen         -         0.05 (500ppm)           Hydrogen         -         0.015 (150ppm)           Other elements         -         0.10 each           Other elements         -         0.40 total           Titanium         Balance |
| WELD<br>PROPERTIES                               | Beta transus 1400° F   | Density 4.77 gr/cc   |
| SIZES<br>AND<br>FORMS OF SUPPLY                  | STRAIGHT LENGTHS 5 lbs. (2.2kg) packs 36" (914mm) lengths Flag tagged for traceability. (Double tagging and other lengths on request) Wide range of diameters.   | SPOOLED WIRE Precision layer wound, with controlled cast and helix 12" (300mm) diameter spools standard 8" (200mm), 4" (100mm) and proprietary spool sizes on request. Wide range of diameters and spool weights.                          |
| PACKAGING  | Sealed, air-evacuated, argon filled Vapor Barrier containers with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.   |  |
| DFARS Compliant                                  |  | www.usweldingcorp.com  |