

UNITED STATES WELDING CORPORATION

| USW ALLOY DESIGNATION AND DESCRIPTION | GTAW and SOLID WE | 047 H GMAW LDING WIRE IUM BASE | | ISO 9001 AS 9100 Revision A | DATA SHEET 4185 (3) |
|--|---|---|--|--------------------------------------|----------------------------|
| CROSS-REFERENCE CONFORMANCE SPECIFICATIONS | AMS 4185 718AC USWC4185(C) UNS A94047 N2 (NG2) ALLOY 4047A Fed - QQ - B 655 B Al-2 AlSi-12 (ISO) CLASS FS - BAL Si-4 MSRR 9500/31 ER4047 AWS A5.10 R4047 | | | | |
| METALLURGICAL BACKGROUND INFORMATION | ALLOY 4047 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants. ALLOY 4047 is an Al-12Si alloy with a single melting point, eutectic composition. | | | | |
| MATERIALS TO BE WELDED AND APPLICATIONS | L159, L155, LM2, LM6, LM9, LM20. Also used for gas brazing applications. 1xxx, 3xxx, 6xxx, series alloys. 2014, 2219, 5005, 5050, 5052, 7005, 7039. Al-Si and Al-Si-Mg casting and combinations to wrought alloys as listed above. | | | | |
| WIRE CHEMISTRY WT% | Silicon Iron Copper Zinc | 11.0 13.0 - 0.8 - 0.30 - 0.20 | Manganes Magnesius Other imp Other elen Aluminum | m 0.10 urities 0.05 nents 0.15 | each max total max |
| WELD PROPERTIES | Melting range 1068° - 1080°F (Eutectic point) | | Density 2.66gm/cc | | |
| SIZES AND FORMS AVAILABLE | STRAIGHT LENGTHS 2.2 kg (5 lb) packs. 914 mm (36") lengths. Flag tagged for traceability. (Double tagging and other lengths on request). Wide range of diameters. | | SPOOLED WIRE Precision layer wound & with controlled cast & helix. 300 mm (12") diameter spools standard. 200 mm, 100 mm and proprietary spool sizes on request Wide range of diameters and spool weights. | | |
| PACKAGING | Sealed, air-evacuated, argon purged Vapor Barrier envelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life. | | | | |
| DFARS Compliant www.usweldingcorp.com | | | | | |