

AMS Welding Wires

ASTM's aerospace material standards (AMS) are instrumental in evaluating materials, components, and devices primarily used in aerospace and aircraft industries.

****NOTE****

The below equivalents are a partial list of AMS welding wires. This list is to be used for reference only. When AMS specifications are requested, only AMS specified materials can be used. AWS or UNS equivalents can not be substituted.

AMS SPECIFICATIONS	ALLOY NAME	AWS SPECIFICATIONS	AWS CLASS	UNS #
AMS 4180	1100	AWS A5.10	ER1100 R1100	A91100
AMS 4181	4008	N/A	N/A	A9400B
AMS 4184	4145	AWS A5. 10	ER4145 R4145	A94145
AMS 4185	4047	AWS A5. 10	ER4047 R4047	A94047
AMS 4189	4643	AWS A5. 10	ER4643 R4643	A94643
AMS 4190	4043	AWS A5. 10	ER4043 R4043	A94043
AMS 4191	2319	AWS A5. 10	ER2319 R2319	A92319
AMS 4245	355	AWS A5. 10	R-C355.0	A33550
AMS 4246	357	AWS A5. 10	R-A357.0	A03570
AMS 4350	AZ61A	AWS A5.19	ER AZ61A	M11610
AMS 4395	AZ92A	AWS A5. 19	ER AZ92A	M11922
AMS 4396	AZ33A	AWS A5. 19	ER EZ33A	M12331
AMS 4951 ¹	CP-Ti			R50550
AMS 4954	Ti5	AWS. A5.16	ERTi-5	R56400
AMS 4956 ²	6-4 ELI	AWS. A5. 16(4)	ERTi-23	R56402
AMS 5385 ³	21			R30021
AMS 5617	455	N/A	N/A	S45500
AMS 5621	420	N/A	N/A	S42000
AMS 5656	21-6-9	N/A	N/A	S21904
AMS 5659	15-5	N/A	N/A	S15500
AMS 5675	FM 92	AWS A5. 14	ERNiCrFe-6	N07092
AMS 5676	NICHROME V	N/A	N/A	N06003
AMS 5679	FM 62	AWS A5. 14	ERNiCrFe-5	N06062
AMS 5680 ⁴	347	AWS A5 .9	ER347	S34781
AMS 5689	321	N/A	N/A	S32100
AMS 5692	316	AWS A5 .9	ER316	S31680
AMS 5694 ⁴	310	AWS A5 .9	ER310	S31080
AMS 5763	450	N/A	N/A	S45000
AMS 5774	350	N/A	N/A	S35080
AMS 5776 ⁴	410	AWS A5 .9	ER410	S41000
AMS 5778	FM 69	N/A	N/A	N07069
AMS 5780	355	N/A	N/A	S35500
AMS 5782	19-9W-Mo	N/A	N/A	S63199
AMS 5784 ⁴	29-9	AWS A5 .9	ER312	S64299
AMS 5786	W	AWS A5. 14	ERNiMo-3	N10004
AMS 5789	31			R30031

AMS SPECIFICATIONS	ALLOY NAME	AWS SPECIFICATIONS	AWS CLASS	UNS #
AMS 5794	N-155	N/A	N/A	S30155
AMS 5796	L-605			R30605
AMS 5798	X	AWS A5. 14	ERNiCrMo-2	N06002
AMS 5800	RENE-41	N/A	N/A	N07041
AMS 5801	HS-188			R30188
AMS 5803	17-4	N/A	N/A	S17400
AMS 5804	A286	N/A	N/A	S66286
AMS 5805	A286	N/A	N/A	S66286
AMS 5823	190	N/A	N/A	S41780
AMS 5824	17-7	N/A	N/A	S17780
AMS 5825 ⁴	17-4	AWS A5 .9	ER630	S17480
AMS 5826	15-5VM	N/A	N/A	S15500
AMS 5828 ⁵	WASPALLOY™	N/A	N/A	N07001
AMS 5829	90	N/A	N/A	N07090
AMS 5832	718	AWS A5. 14	ERNiFeCr-2	N07718
AMS 5837	625	AWS A5. 14	ERNiCrMo-3	N06625
AMS 5838	S	N/A	N/A	N06635
AMS 5840	13-8Mo	N/A	N/A	S13889
AMS 5872	263	N/A	N/A	N07263
AMS 6456	4340 (bare)			
AMS 6457	4130 (bare)			K13147
AMS 6458	17-22A(S) (bare)			K23015
AMS 6466 ⁴	502	AWS A5 .9	RE502	S50280

- 1- A perfect match with AWS does not exist. There are four classes of AWS A5.16-ERTi-1, ERTi-2, ERTi-3 and ERTi-4 available upon request.
- 2- The only difference between the AWS and AMS requirement for this alloy is a maximum limit on Oxygen; 0.08% for AMS, and 0.03% - 0.10% for AWS.
- 3- AMS 5385 is not a weld wire specification.
- 4- AWS specification has slightly different chemical composition requirements.
- 5- Trade mark of United Technology Corp.