



# United States Welding Corporation

3579 Highway 50 East #104

Carson City, Nevada 89701-2826 U.S.A.

800-423-5964 - 775-883-7878 - Fax 775-883-7776

[www.usweldingcorp.com](http://www.usweldingcorp.com) [info@usweldingcorp.com](mailto:info@usweldingcorp.com)



## Cross Reference Guide

Approved by GE, P&W & Rolls Royce

USW Alloy Designation	Generic Alloy Designation	Specification(s)
<b>Aluminum Alloys</b>		
4008 (A356)	A356.0	AMS 4181, AWS A5.10
4145	R-4145	AMS 4184, AWS A5.10
4047	R-4047	AMS 4185, AWS A5.10
4643	R-4643	AMS 4189, AWS A5.10
4043	R-4043	AMS 4190, AWS A5.10
2319	R-2319	AMS 4191, AWS A5.10
4009 (C355)	R-C355.0	AMS 4245, AWS A5.10
357	R-357.0	AMS 4246, AWS A5.10
RR 250	RR 250	MSRR9500/34
5356	R-5356	AWS A5.10
<b>Magnesium Alloys</b>		
AZ61A	AZ61A	AMS 4350, AWS A5.19
AZ92A	AZ92A	AMS 4395, AWS A5.19
EZ33A	EZ33A	AMS 4396, AWS A5.19
AZ101A	AZ101A	AWS A5.19
<b>Titanium Alloys</b>		
15-3-3	15-3-3 Ti	AMS 4914
C.P. Ti	C.P. Ti	AMS 4951, AWS A5.16 ERTi-2
6-2-4-2	6-2-4-2 Ti	AMS 4952
6-4, 6-4 (ELI)	6-4 Ti, 6-4 Ti (ELI)	AMS 4954, 4956, AWS A5.16 ERTi-5 / ERTi-23
8-1-1	8-1-1 Ti	AMS 4955
<b>Nickel Alloys</b>		
TURBALOY 92	Inconel 92	AMS 5675, AWS A5.14 ERNiCrFe-6
TURBALOY 62	Inconel 62	AMS 5679, AWS A5.14 ERNiCrFe-5
TURBALOY 69	Inconel 69 (X-750)	AMS 5778
TURBALOY W	Hastelloy W	AMS 5786, AWS A5.14 ERNiMo-3
TURBALOY X	Hastelloy X	AMS 5798, AWS A5.14 ERNiCrMo-2
TURBALOY 41	Rene 41	AMS 5800, MSRR9500/241
TURBALOY 685	Waspaloy	AMS 5828, MSRR9500/202
TURBALOY 90	Nimonic 90	AMS 5829, MSRR9500/4
TURBALOY 901	Incoloy 901	AMS 5830, 5660,
TURBALOY 718	Inconel 718	AMS 5832, AWS A51.4 ERNiFeCr-2
TURBALOY 82	Inconel 82	AMS 5836, AWS A5.14 ERNiCr-3
TURBALOY 625	Inconel 625	AMS 5837, AWS A5.14 ERNiCrMo-3
TURBALOY S	Hastelloy S	AMS 5838, MSRR9500/239
TURBALOY 263	Nimonic C263	AMS 5872, 5966
TURBALOY 8020	Nimonic 8020	MSRR9500/3
TURBALOY 230	Haynes 230	AMS 5839, MSRR9500/250, AWS A5.14 ERNiCrWMo-1
TURBALOY 220	Rene 220	B50TF239
Alloy 282	Haynes 282	AMS 5951
GTD-222	GTD-222	B50TF311, B50A940
TURBALOY 617	Inconel 617	AWS A5.14 ERNiCrCoMo-1
<b>Cobalt Alloys</b>		
TURBOCAST 21	Stellite 21	AMS 5385, AWS A5.21 ERCoCr-E
TURBALOY 31	Stellite 31	AMS 5789, MSRR9500/25
TURBOCAST 6	Stellite 6	AMS 5788, AWS A5.21 ERCoCr-A
TURBALOY 605	L-605 (Haynes 25)	AMS 5796, MSRR9500/23
TURBALOY 188	Haynes 188	AMS 5801
TURBALOY 918	MAR-M-918	B50A824, AMS 5814
TURBALOY 72	Merl 72	PWA 795
TURBOCAST 694	CM 64	PWA 694, B50A842, B50TF55, DMR 34-070
TURBALOY 414LC	FSX 414LC	B50A823

"Serving the Aerospace, Defense and Energy Industries since 1960"



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<b>Iron Alloys</b>		
TURBALOY 455	Custom 455	AMS 5617
TURBALOY 420	420 ss	AMS 5621, AWS A5.9
TURBALOY 15-5	15-5 ph	AMS 5826, 5659
TURBALOY 347	347 ss	AMS 5680, AWS A5.9
TURBALOY 321	321 ss	AMS 5689, AWS A5.9
TURBALOY 316	316 ss	AMS 5692, AWS A5.9
TURBALOY 310	310 ss	AMS 5694, AWS A5.9
TURBALOY 450	Custom 450	AMS 5763
TURBALOY 350	AM350	AMS 5774
TURBALOY 410	410 ss	AMS 5776, AWS A5.9
TURBALOY 355	AM355	AMS 5780, MSRR9500/210
TURBALOY 349	349 ss	AMS 5782, MSRR9500/211
TURBALOY 312	312 ss	AMS 5784, AWS A5.9
TURBALOY 155	N-155	AMS 5794, MSRR9500/214
TURBALOY 909	Incoloy 909	AMS 5802
TURBALOY 17-4	17-4 ph	AMS 5803, 5825, AWS A5.9
TURBALOY 286	A286	AMS 5804, 5805
TURBALOY 15-7	15-7 Mo	AMS 5812
TURBALOY 418	Greek Ascoloy	AMS 5817
TURBALOY 410 Mod.	410 Mod. ss	AMS 5821
TURBALOY M190	Jethete M-190	AMS 5822, 5823
TURBALOY 17-7	17-7 ph	AMS 5824
TURBALOY 13-8	13-8 Mo	AMS 5840
TURBALOY 308L	308L ss	AWS A5.9
TURBALOY 21-6-9	21-6-9	AMS 5818, 5656, AWS A5.9
<b>Low Alloy Steels</b>		
TURBALOY 4140	4140	AMS 6452
TURBALOY HT	Hy-Tuf	AMS 6453
TURBALOY 4340	4340	AMS 6456
TURBALOY 4130	4130	AMS 6457
TURBALOY 17-22	17-22(A)S	AMS 6458
TURBALOY 1212	Cromoloy	AMS 6459, B50T41
TURBALOY 6130	6130	AMS 6461
TURBALOY 140	ER140S-1	AMS 6469, USW 1392
TURBALOY 521	ER90S-B3	AWS A5.28, USW 974
TURBALOY 702	ER70S-2	AWS A5.18, USW 1398
TURBALOY 515	ER80S-B2	AWS A5.28, USW 1407
TURBALOY 100	ER100S-1	AWS A5.28, USW 1580
TURBALOY 120	ER120S-1	AWS A5.28, USW 1587
TURBALOY 802	ER80S-D2	AWS A5.28, EMS 60610 Gr. 2
<b>High Strength Steels</b>		
TURBALOY 91	ER90S-B9	AWS A5.28, USW 1677
TURBALOY 9-4-20	HP9-4-20	AMS 6468
TURBALOY 250	Maraging 250	AMS 6501
TURBALOY 1410	AF1410	AMS 6533

## DFARS Compliant