



# UNITED STATES WELDING CORPORATION

3579 HIGHWAY 50 EAST #104 CARSON CITY, NV 89701-2826  
775/883-7878 800/423-5964 FAX: 775/883-7776  
Website: www.usweldingcorp.com



## CROSS REFERENCE GUIDE

TYPICAL TURBINE WELDING ALLOYS  
APPROVED BY G.E., P&W, AND ROLLS-ROYCE

### GENERIC ALLOY DESIGNATION

4043 Aluminum  
2319 Aluminum  
RR250 Aluminum  
AZ92A Magnesium  
EZ33A Magnesium  
AZ101A Magnesium  
C.P. Titanium  
6Al-2Sn-4Zr-2Mo Titanium  
6Al-4V Titanium  
6Al-4V ELI Titanium  
INCONEL 92\*  
INCONEL 62\*  
INCONEL 69\* (X-750)  
HASTELLOY W\*\*  
HASTELLOY X\*\*  
RENE 41  
WASPALLOY  
NIMONIC 90\*  
INCOLOY 901\*  
INCONEL 718\*  
INCONEL 82\*  
INCONEL 625\*  
HASTELLOY S\*\*  
NIMONIC C263\*  
NIMONIC 8020\*

### U.S. WELDING DESIGNATION

4043 Al  
2319 Al  
RR250 Al  
AZ92A  
EZ33A  
AZ101A  
C.P. Ti  
6-2-4-2 Ti  
6-4 Ti  
6-4 ELI Ti  
TURBALOY® 92  
TURBALOY® 62  
TURBALOY® 69  
TURBALOY® W  
TURBALOY® X  
TURBALOY® 41  
TURBALOY® 685  
TURBALOY® 90  
TURBALOY® 901  
TURBALOY® 718  
TURBALOY® 82  
TURBALOY® 625  
TURBALOY® S  
TURBALOY® 263  
TURBALOY® 8020

### X-REFERENCE SPECIFICATION

AMS 4190, AWS A5.10, MSRR9500/32  
AMS 4191, AWS A5.10 MSRR9500/45  
MSRR9500/34  
AMS 4395, AWS A5.19, MSRR9500/51  
AMS 4396, AWS A5.19, MSRR9500/50  
AWS A5.19  
AMS 4951, AWS A5.16, MSRR9500/70  
AMS 4952, PWA 1222, MSRR9500/74  
AMS 4954, AWS A5.16, MSRR9500/73  
AMS 4956, AWS A5.16  
AMS 5675, AWS A5.14, MSRR9500/9  
AMS 5679, AWS A5.14, MSRR9500/206  
AMS 5778, AWS A5.14, MSRR9500/209  
AMS 5786, AWS A5.14, MSRR9500/213  
AMS 5798, AWS A5.14, MSRR9500/215  
AMS 5800, MSRR9500/241  
AMS 5828, MSRR9500/202  
AMS 5829, MSRR9500/4  
AMS 5660, AMS 5830, MSRR9500/227,  
PWA 1003  
AMS 5832, MSRR9500/220  
AWS A5.14, MSRR9500/216, MIL-E-21562  
AMS 5836  
AMS 5837, AWS A5.14, MSRR9500/237,  
MIL-E-21562  
AMS 5838, MSRR9500/239  
AMS 5872, MSRR9500/16, AMS 5966  
MSRR9500/3

*“Serving the Aerospace Industry since 1960”*



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#### GENERIC ALLOY DESIGNATION

INCONEL 617\*  
STELLITE 31\*\*\*  
L-605 (HAYNES 25)\*\*  
HAYNES 188\*\*  
MAR-M-918  
MERL 72  
Coast Metal 64  
FSX414LC  
15-5 Ph Stainless Steel  
347 Stainless Steel  
AM 350 Stainless Steel  
410 Stainless Steel  
AM 355 Stainless Steel  
349 Stainless Steel VM  
312 Stainless Steel  
N-155 (MULTIMET)\*\*  
A286  
410 Mod. Stainless Steel VM  
JETHETE M190  
17-4 Ph Stainless Steel (ER630)  
4130 VM  
17-22 A(S) VM  
CROMOLOY

#### U.S. WELDING DESIGNATION

TURBALOY® 617  
TURBALOY® 31  
TURBALOY® 605  
TURBALOY® 188  
TURBALOY® 918  
TURBALOY® 72  
TURBOCAST™ 694  
TURBALOY® 414LC  
TURBALOY® 15-5  
TURBALOY® 347  
TURBALOY® 350  
TURBALOY® 410  
TURBALOY® 355  
TURBALOY® 349  
TURBALOY® 312  
TURBALOY® 155  
TURBALOY® 286  
TURBALOY® 410 MOD  
TURBALOY® M190  
TURBALOY® 17-4  
TURBALOY® 4130  
TURBALOY® 17-22  
TURBALOY® 1212

#### X-REFERENCE SPECIFICATION

AWS A5.14, PWA 1168  
AMS 5789, MSRR9500/25  
AMS 5796, MSRR9500/23  
AMS 5801  
AMS 5814, B50A824, PDS13256BB  
PWA 795  
PWA 694, B50TF55, MSRR9500/226  
B50A842  
B50A823  
AMS 5826  
AMS 5680 AWS A5.9, MSRR9500/2  
AMS 5774  
AMS 5776, AWS A5.9, MSRR9500/205  
AMS 5780, MSRR9500/210  
AMS 5782, MSRR9500/211  
AMS 5784 AWS A5.9, MSRR9500/212  
AMS 5794, MSRR9500/214  
AMS 5804, AMS 5805 (VM), MSRR9500/233,  
MSRR9500/234  
AMS 5821  
AMS 5823, AMS 5822 (VM), MSRR9500/10  
AMS 5825, AMS 5803 (VM), MSRR9500/240,  
AWS A5.9  
AMS 6457  
AMS 6458  
AMS 6459, B50T41

\* Registered TM of Special Metals Corporation.  
\*\* Registered TM of Haynes International  
\*\*\* Registered TM of Deloro-Stellite

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TURBOCAST™ TM of United States Welding Corporation

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