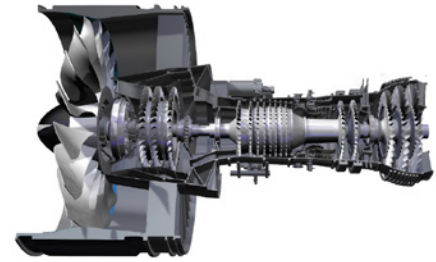


## APPLICATION GUIDE

# ChipCHECK - PW1100 and PW1500

The ChipCHECK alloy naming convention follows SAE standards which may differ from the Manual. This application guide is a cross reference between the ChipCHECK report and the PW1100 and PW1500.



ChipCHECK	PW1100 and PW1500
1010	Plain Carbon Steel, AMS 7310 Iron Alloy (Cast Iron - 2.2% Si)
8740	AMS 6322 ST. / SAE8740, AMS 6530, AMS 6323
4130 / 52100	AMS 6370, AMS 6440
15CDV6 (AIR)	AMS 6448
4340	AMS 6414, AMS 6414 (AISI 4340), AMS 6415, AMS 6416, AMS 2412
32CDV13 (AIR) / 30CD12 (AIR) / S-7 (AISI)	AMS 6481
Nitralloy 135 Mod	AMS 6470, AMS 6471
9310	AMS 6265
35NCD16 (AIR)	N/A to this engine type
Nitralloy N	AMS 6475
H-13	N/A to this engine type
6308	AMS 6308, Pyrowear
M50	AMS 6491, M-50, PWA 793, AMS 6490
<b>Fe Base</b>	
400 Series	5613, AMS 5613 CRES., AMS 5613 CRES. (410 SS), AMS 5613 CRES., AMS 5613 ST., AMS 5616, AMS 5630
M50 Nil	AMS 6278, M50 NIL, PWA 36140
Jethete M152 (P)	AMS 5629 PWA 328
15-5PH / 17-4PH	AMS 2615 Type 17-4PH, AMS 5343, AMS 5355, AMS 5604, AMS 5622, AMS 5643 CRES, AMS 5659
AM-350	AMS 5548 / 5774 / 5554 / 5546
17-7 PH	AMS 5529 SST. (17-7PH), AMS 5678 SST
300 Series	304 SS., AMS 5362 SST., AMS 5510 CRES., AMS 5510 SST., AMS 5512 SST, AMS 5639, AMS 5645 ST. / 321 SS., AMS 5646, AMS 5688 (301SS), AMS 5689 Heat Resistant CRES., AMS 7245, AMS 7330, CRES. 304 AMS-QQ-S-763, CRES. Type 304 (UNS S30400) per AS7245, AMS 5515, AMS 5516, AMS 5517, AMS 5518
Maraging 250 (P)	AMS 6525
Alloy No. 42 (P)	Alloy 42
A286	A286, AMS 5731, AMS 5731 (CRES. Type 302), AMS 5732, AMS 5732-STL (A286), AMS 5737, Heat resistant CRES. per AMS 5735
ALNICO 5 (P)	N/A to this engine type
6061	AMS 4027, AMS 4117, AMS 4127
2024	AMS 4037, AMS 4120, AMS 4152
2219	AMS 4031, AMS 4143, AMS 4313, AMS 4163, AMS 4066, AMS 4144, AMS 4162
2618	AMS 4132
C355.0 / 356.0 / 357.0	AMS 4215
7075	AMS 4016
<b>Al Base</b>	
Waspalloy	Waspalloy
Inconel 718	AMS 5596 Ni Alloy, AMS 5662 Ni Alloy, AMS 5663, AMS 5663 (IN718), IN718
Hastelloy X	AMS 5536, AMS 5587, AMS 5754, AMS 7237, AMS 5798, AMS 5390
<b>Ni Base</b>	
Inconel 625	AMS 5401, AMS 5402
Inconel X750	AMS 5542, AMS 5582, AMS 5598, AMS 5667, AMS 5668, AMS 5670, AMS 5671, AMS 5698, AMS 5699
Nickel	Electroless Nickel Plate - PWA 36
<b>Ti Base</b>	
Ti 6-4	AMS 4911 Ti Alloy, AMS 4928, AMS 4928 Ti Alloy, PWA 1228 Ti Alloy, Ti6Al4V
Ti 6-2-4-6	AMS 4976 Ti Alloy, Ti6-2-4-2
<b>Cu Base</b>	
Copper	AMS 4590, AMS 4616 Forged Silicon Bronze
CDA443 (CDA)	Brass
<b>Co Base</b>	
L-605	AMS 5537, AMS 5759, AMS 5796, AMS 7236
Elgiloy	MP159
<b>Ag Base</b>	
Silver	AMS 2412

If you have any questions, please contact [support@gastops.com](mailto:support@gastops.com)

**Disclaimer:** The analyzed wear debris is reported by ChipCHECK as the nearest matched alloy classification per ASTM D8182-18. Any analyzed wear debris that could not be classified by ChipCHECK is reported as "Unclassified". Note that unclassified results do not necessarily constitute that the sample is in absence of the materials included in the configured material library. An unclassified result may be due to an inadequate spectra collected from the particles, which can be mitigated by following the procedures outlined in the user manual. All results reported by ChipCHECK are subject to the proper use, operation, and maintenance of the device in compliance with the defined requirements in user manual C009802.