

APPLICATION GUIDE

ChipCHECK - PW4000

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 PW4000.



| | ChipCHECK | PW4000 |
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| | 1010 | AMS 5022, AMS 5040, AMS 5042, AMS 5062, AMS 5120, AMS 5316, AMS 7310, AMS 7330, ASTM 536, SAE 1060, SAE 1070, SAE 1090 |
| | 8740 | AMS 6280, AMS 6281, AMS 6355, UNS G87400 |
| | 4130 / 52100* ¹ | AMS 6304, AMS 6329 (SAE4140/UNS G41400), AMS 6349, AMS 6350, AMS 6351 (4130), AMS 6370, AMS 6371, AMS 6440, AMS 6444, PWA 723 (52100) |
| | 15CDV6 (AIR) | AMS 6304 |
| | 4340* | AMS 6415, AMS 6416, UNS 643400 per MIL-S-5000 |
| | 32CDV13 (AIR)/30CD12 (AIR)/S-7 (AISI) | N/A to this engine type |
| | Nitralloy 135 Mod | N/A to this engine type |
| | 9310* | AMS 6265 |
| | 35NCD16 (AIR) | N/A to this engine type |
| | Nitralloy N | N/A to this engine type |
| | H-13 | N/A to this engine type |
| | 6308 | N/A to this engine type |
| Fe Base | M50* | PWA 793, PWA 725 |
| | 400 Series | AISI-401, AMS 5504, AMS 5610, AMS 5616, UNS S41600, UNS S41623, X10 Cr13 |
| | M50 Nil | N/A to this engine type |
| | Jethete M152 (P) | AMS 5616 |
| | 15-5PH / 17-4PH | AMS 5643, AMS 5662, AMS 5355 |
| | AM-350 | N/A to this engine type |
| | 17-7 PH | AMS 5529, AMS 5678 |
| | 300 Series | AISI TYPE 316-L, AISI-301, AISI-302, AISI-303, AISI-304L, AISI-347, AISI-T303 CRES, AISI-T321 CRES, AMS 5510, AMS 5511, AMS 5513, AMS 5514, AMS 5515, AMS 5516, AMS 5524, AMS 5557, AMS 5639, AMS 5640, AMS 5645, AMS 5656, AMS 5674, AMS 5689, AMS 5866, AMS 7228, PWA S-5557 |
| | Maraging 250 (P) | N/A to this engine type |
| | Alloy No. 42 (P) | N/A to this engine type |
| | A286 | AMS 5525, AMS 5731, AMS 5731-85, AMS 5732, AMS 5734, AMS 5735, AMS 5736, AMS 5737 |
| | ALNICO 5 (P) | N/A to this engine type |
| | 6061 | AMS 4001, AMS 4003, AMS 4022, AMS 4025, AMS 4027, AMS 4115, AMS 4116, AMS 4125, AMS 4146, PWA S-4116 |
| | 2024 | AMS 4035, AMS 4119, AMS 4121, AMS 4135, AMS 4152, AMS 4219, QQ-A-596, Alloy, 852.0-T5 |
| | 2219 | AMS 4144 |
| | 2618 | AMS 4132 |
| | C355.0 / 356.0 / 357.0 | AMS 4260 |
| | 7075 | AMS 4045 |
| | Waspalloy | AMS 5708, AMS 5709 |
| | Inconel 718 | AMS 5596, PWA 649 (Inco 718), PWA 649-1, PWA 96NI, PWA 1065, PWA 1469-3, PWA S-5596, PWA S-5662 |
| | Hastelloy X | AMS 5536 |
| | Inconel 625 | AMS 5545, AMS 5599, AMS 5666, AMS 5961, AMS 5999 |
| | Inconel X750 | AMS 5699, AMS 7232 |
| | Nickel | N/A to this engine type |
| Ni Base | Ti 6-4 | AMS 4911, AMS 4914, PWA 1228, PWA S-4928 |
| | Ti 6-2-4-6 | AMS 4919, AMS 4975, PWA 1224 |
| Ti Base | Copper* | AMS 4616 Forged Silicon Bronze, Copper, AMS 4846, MS23.06-01, Bronze |
| Cu Base | CDA443 (CDA) | N/A to this engine type |
| | L-605 | N/A to this engine type |
| Co Base | Elgiloy | N/A to this engine type |
| Ag Base | Silver* | AMS 2410, AMS 2411, AMS 2412 |
| Unclassified | | AMS 2400, AMS 2406, AMS 3617, AMS 4484, AMS 7267, AMS 7273, AMS 7276, AMS 7277, AMS 7278, AMS 7280, AMS R 83485, AMS-R-83485 Type 1, MIL-R-25988/2, SAE AMS-R-83485, Organic Material |

*Critical material

¹Please send suspect debris to laboratory or contact Gastops Customer Support to confirm the presence of 52100

If you have any questions, please contact 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.