

# Alloy Steel Grade and Specs

**Grade** 300M/4340M  
**Melt Type** Triple Melt VAR

Specifications associated with this alloy:  
Normalized & Sub-Critical Anneal Rc 33 Max  
PER BAC 5617, AMS-H-6875 Heat Treat Alloy Steel,  
AMS 6257, AMS 6417 AMS 6419  
BOEING; LONG BEACH DMS 1935  
BOEING; BMS 7-26 (TYPE 1)  
GRUMMAN GM 1012  
CPS 4911  
LOCKHEED C-05-1190  
ASTM A322 HR  
MIL-S-8844  
AMS 2300  
FRACTURE TOUGHNESS TEST ASTM E399  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; DMS 1800 CLASS 1 GRADE A, MIL-F-7190

**Grade** 4330M  
**Melt Type** VAR

Specifications associated with this alloy:  
Normalized & Sub-Critical Anneal Rc 23 Max Or Annealed Cond.  
PER BAC 5617, AMS-H-6875 Heat Treat Alloy Steel, AMS 6411, AMS 6427  
BOEING; BMS 7-122  
BOEING; BMS 7-27 (TYPE 1)  
GRUMMAN GM 1010  
GENERAL DYNAMICS FMS 1012  
CPS 4911  
LOCKHEED C-05-1190  
ASTM A322 HR  
MIL-S-8699  
MAGNETIC PARTICLE AMS 2300  
FRACTURE TOUGHNESS TEST ASTM E399  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; DMS 1800 CLASS 1 GRADE A, MIL-F-7190

**Grade** 4340  
**Melt Type** VAR/AIR

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond. Or Annealed Cond.  
PER BAC 5617, AMS-H-6875 Heat Treat Alloy Steel, AMS 6414, AMS 6415, AMS-S-5000  
CAPABLE OF AMS 6359  
BOEING; LONG BEACH DMS 1555 GRADE A



**AERO-VAC ALLOYS & FORGE, INC.**  
2181 South Dupont Drive  
Anaheim, CA 92806  
USA

PH: 877-AEROVAC  
(877.237.6822)  
FX: 714.634.4216

[sales@aerovacalloyforge.com](mailto:sales@aerovacalloyforge.com)

BOEING; BMS 7-28  
BPS 299-947-055 TYPE 1  
MIL-S-8844  
MAGNETIC PARTICLE AMS 2300, AMS 2301  
FRACTURE TOUGHNESS TEST ASTM E399  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; DMS 1800 CLASS 1 GRADE A, MIL-F-7190

<b>Grade</b>	<b>HY-TUF</b>
<b>Melt Type</b>	<b>VAR/AIR</b>

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond. Or Annealed Cond.  
PER BAC 5617, AMS-H-6875 Heat Treat Alloy Steel, AMS 6418  
BOEING; LONG BEACH DMS 1841 GRADE A TY.1  
AMS-S-7108  
ASTM A322 HR  
MAGNETIC PARTICLE AMS 2300, AMS 2301, AMS 2304  
FRACTURE TOUGHNESS TEST ASTM E399  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; DMS 1800 CLASS 1 GRADE A, MIL-F-7190

<b>Grade</b>	<b>HP9-4-30</b>
<b>Melt Type</b>	<b>VAR</b>

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond.  
BMS7-182C TY.2  
AMS 6526  
MAGNETIC PARTICLE AMS 2301, AMS 2304  
FRACTURE TOUGHNESS TEST ASTM E399  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; DMS 1800 CLASS 1 GRADE A, MIL-F-7190

<b>Grade</b>	<b>9310 (H-BAND)</b>
<b>Melt Type</b>	<b>VAR/AIR</b>

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond.  
AMS 6265  
AMS 6267 TY.2  
AMS 6260  
EMS 56279  
EMS 56280  
BELL, BPS 299-947-032  
AIRESEARCH HT-5042  
MIL-S-7393  
MIL-S-83030 C  
MAGNETIC PARTICLE AMS 2300, AMS 2301  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; MIL-F-7190

Grade 52100  
Melt Type VAR/AIR

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond.  
Or Annealed Cond.  
AMS 6444  
AMS 6440  
MIL-S-7420  
MAGNETIC PARTICLE AMS 2300, AMS 2301  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; MIL-F-7190

Grade D6AC  
Melt Type VAR

Specifications associated with this alloy:  
Normalized & Tempered Thermal Cond. Or Annealed Cond.  
AMS 6431  
AMS-S-8949  
MIL-S-8949  
GENERAL DYNAMICS;FMS 1011  
LOCKHEED; LMC 05-2190  
GM 1013  
MAGNETIC PARTICLE AMS 2300  
ULTRA SONIC INSPECTED;AMS-STD-2154 CL. AA  
FORGE PER; MIL-F-7190

[www.aerovacalloyforge.com](http://www.aerovacalloyforge.com)

**AERO-VAC ALLOYS & FORGE, INC.**

