Advanced Materials for Defense Applications
The defense sector is under increased pressure to deliver improved corrosion resistance, wear resistance, lower weight, and smaller component footprint. Demands for faster, lighter, and enhanced life cycle of equipment is a considerable challenge. Carpenter’s engineering expertise and alloys will help you work towards achieving these goals.

Carpenter manufactures an exceptional group of specialty alloys, titanium alloys and powder metal alloys. We combine an industry-leading product offering with knowledgeable materials support, lot-to-lot consistency, and responsive, on-time delivery.

Whatever the need—from aerospace applications such as landing gear, engine parts or fasteners; to armor plate for aircraft, land vehicles and personal protection; to vehicle suspension systems including springs and carriage components—you can count on Carpenter to deliver the specialty materials you need.
TOTAL COMMITMENT IN MANUFACTURING, DELIVERY AND CUSTOMER SERVICE

Carpenter products are manufactured to strict standards; Carpenter’s quality systems are approved to ISO 9001:2008 and AS9100 standards.

We have strategically located warehouses and operations centers in Asia, Europe, Mexico, Canada and the United States. Our responsive sales and service professionals can quickly and accurately track order status, inventory and other essential delivery data.

DEPENDABLE MATERIALS YOU CAN COUNT ON WHEN MISSION READINESS MATTERS


For more information, visit www.cartech.com. In the United States call toll-free 1-800-654-6543.
CARPENTER manufactures hundreds of specialty materials. Mill forms include round and shaped bar, plate, strip, hollow bar, wire and fine wire in wrought and Micro-Melt® powder metals. Below is a listing of some of our alloys that have been used for defense applications.

### Ultra High-Strength Alloys
- AerMet® 100 alloy
- AerMet 310 alloy
- AerMet 340 alloy
- NiMark® Alloy 250
- NiMark Alloy 300

### High-Temperature Alloys
- Micro-Melt® L.C. Astroloy
- Pyromet® Alloy X-750
- Pyromet Alloy 901
- Pyromet Alloy 909
- Pyromet Alloy 41
- Pyromet Alloy A-286
- Pyromet Alloy 355
- Pyromet Alloy 718
- Pyrowear® 675 stainless
- Waspaloy

### Stainless Steels
- Ferritic, martensitic and austenitic grades

### High-Strength (PH) Stainless
- Carpenter 15Cr-5Ni stainless
- Carpenter 13-8 stainless
- Carpenter Stainless
- Custom 630
- Custom 450® stainless
- Custom 455® stainless
- Custom 465® stainless
- Custom 475® stainless

### Magnetic/Electronic Alloys
- Carpenter High Permeability “49”® alloy
- Hiperco® 50 alloy
- Carpenter HyMu “80”® alloy
- Kovar® alloy

### Titanium Alloys
- Ti 6Al-4V
- Ti 3Al-8V-6Cr-4Mo-4Zr
- Ti 3Al-2.5V

### Tool Steels
- Micro-Melt® Maxamet® alloy
- Micro-Melt T15 alloy
- Micro-Melt M4 alloy

### Mold Steel
- Carpenter No. 158® alloy

### Bushing and Bearing Alloys
- ACUBE® 100
- Gall-Tough® PLUS stainless
- Micro-Melt® 440C

### Surface Protection and Repair
- Micro-Melt® MCrAlY alloys
- Micro-Melt braze materials
- Micro-Melt weld repair materials

### CARPENTER’S SPECIALTY ALLOYS HAVE BEEN USED IN A WIDE VARIETY OF DEFENSE APPLICATIONS

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