

Product	Description	Properties
<u>High-Temperature Alloys</u>		
Inconel 600	Inconel 600 is a nonmagnetic high-temperature alloy, with nickel as its base component. It provides great qualities that can be applied in various circumstances.	Non-magnetic, high strength, good resistance to corrosion, good hot and cold workability, good corrosion resistance
Inconel 625	Inconel 625 is a non-magnetic, nickel-based high-temperature alloy. It is a multipurpose alloy due to its variety of qualities that allow it to withstand extreme conditions.	Non-magnetic, high tensile strength, high rupture strength, excellent heat resistance, great oxidation resistance, excellent weldability
Inconel 718	Inconel 718 is a nickel-chromium based high-temperature alloy. It is age-hardeneable, and its ease of production has allowed it to become mainstream in a large number of applications	Outstanding resistance to post weld cracking, good tensile strength, good rupture strength, good fatigue strength
Inconel X-750	Inconel X-750 is a nickel-chromium based alloy that is similar to the 600, but is precipitation-hardeneable due to the addition of titanium and aluminum	Good corrosion resistance good oxidation resistance, high tensile strength, non-magnetic, high temperature resistance up to 1300°F
A-286	A-286 is a nickel and iron-based high-temperature alloy. It is age-hardeneable and is used for applications requiring high strength and corrosion resistance	High oxidation resistance, non-magnetic, high strength, good stress rupture qualities

Waspaloy	Waspaloy is an age-hardening nickel-based high-temperature alloy. It is commonly used for applications that encounter extreme environments.	High strength, high oxidation resistance, difficult weldability, better creep-rupture strength than the Inconel 718, good oxidation resistance
Haynes 188	Haynes 188 is a non-magnetic cobalt-nickel-chromium-tungsten high-temperature alloy. It possesses characteristics that allow it to be widely used in the aerospace market	High-temperature strength, good oxidation resistance, high corrosion resistance, good forming and welding properties
Hastelloy X	Hastelloy X is a nickel-chromium-iron-molybdenum high-temperature alloy. It has an excellent resistance to harsh environments, especially high temperatures, which makes it useful in extreme conditions applications	Good resistance to oxidation, good resistance to atmospheres of up to 2200°F, high corrosion resistance, excellent forming and welding qualities
Rene 41	Rene 41 is a high-temperature alloy with nickel as its base component. It is commonly used in applications where extreme temperatures are encountered, and high strength is required	High strength in the 1200-1800°F range, high temperature resistance, exceptional oxidation resistance

Specs	Markets	Applications
AMS 5540, AMS 5665, ASME SB 166, ASME SB 167, ASME SB 168, ASTM B 166, ASTM B 167, ASTM B 168, UNS N06600	Aerospace, Defense, Industrial, Automotive & Transportation, Energy	Tank truck liners, furnace trays, gasoline stabilizer, phenol condensers, soap manufacturing
AMS 5599, AMS 5666, MS 5837, ASME 443, ASTM 446, ASTM 443, ASTM 446, UNS N06625	Aerospace, Defense, Industrial, Automotive & Transportation, Energy	Undersea communication cables, specialized seawater equipment electric cable connectors, aircraft engine exhaust systems, fuel and hydraulic line tubing, chemical process equipment
AMS 5596, AMS 5662, AMS 5663, AMS 5832, ASTM B 637, ASTM B 670, UNS N07718	Aerospace, Defense, Industrial, Automotive & Transportation, Energy	Gas turbine engine parts, liquid fuel rockets, aircraft and land-based gas turbine engines, cryogenic tankage, instrumentation parts
UNS N07750, AMS 5598, AMS 5542, ASTM B 637, ASME SB 637	Aerospace, Defense, Energy, Industrial, Automotive & Transportation, Industrial	Aircraft structures, gas turbines (disc, thrust reversers, ducts), nuclear reactors, cryogenic vessels
AMS 5525, AMS 5732, AMS 5737, AMS 5804, GE B50T1181, GE B50T12, GE B50T81, UNS S66286	Aerospace, Industrial, Automotive & Transportation, Energy	Jet engine components, offshore oil and gas, bolts, blades, springs, fasteners

AMS 5544, AMS 5708, AMS 5828, UNS N07001	Aerospace, Defense	Gas turbine parts (blades, rings, shafts), turbine disks
UNS R30188, AMS 5608, AMS 5772, B50TF74, PWA-LCS, GE-S400/1000, RR SABRe Edition 2, DFARS Compliant	Aerospace, Defense, Industrial	Gas turbine components, combustors, flame holders, transitions ducts
AMS 5536, AMS 5754, ASTM B 435, ASTM B 572	Aerospace, Defense, Energy, Industrial	Gas turbine operations, petrochemical applications, structural components, industrial furnace, cabin heaters
AMS 5545, AMS 5712, AMS 5713, AMS 5800, GE B50T59, GE B50TF109, GE B50TF76, UNS N07041	Aerospace, Defense, Industrial	Bolting, jet engine components, missile components, springs

Forms

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