

Materials

At amace we have an experience of over 10,000+ hours of printing various materials and we understand materials better. We offer a range of prequalified materials that have been optimized for best results on our machines.

AlSi10Mg Aluminium alloy powder

One of the most widely used powders for additive manufacturing globally is the Aluminium alloy AlSi10Mg. It finds application in Automotive, Aerospace & Defence, general engineering, and other lightweight applications. This alloy AlSi10Mg, prints fast consuming lesser powder and energy making it the most suited material for prototyping applications. The material offers good thermal and electric conductivity and excellent corrosion resistance.

Stainless steel (AISI 316L) powder

One of the most popular materials for 3D printing is the SS316L. The high chromium and high nickel steel has superior corrosion resistance. The material printed on the amace ALM-400 machine provide high density parts with superior surface finish. The material has diverse applications, especially in Automotive, general engineering, surgical instruments, defence and aerospace.

Ti6Al4V Titanium alloy powder

One of the most widely used Titanium-based alloy in the world. Due to its high strength, low density, and good corrosion resistance, Ti6Al4V is suited for production of parts in the bio-medical, aerospace & automotive industry.

Inconel powder

Inconel is a precipitation-hardenable nickel, chromium alloy. With excellent tensile, fatigue, creep and rupture strength, IN625/IN718 is an important alloy for the production of components for the aerospace industry especially for the aircraft engines, gas turbines and other high temperature applications.

Maraging Steel (18Ni300)

Maraging steel is a Nickel based steel alloy suited for tooling and mould applications. It has excellent heat transfer properties and can be hardened upto 54 HRC post printing making it most suitable for demanding tooling applications. This material finds its application in injection moulding tools and die casting tool manufacturing.

17-4PH Stainless Steel

17-4PH stainless steel is a martensitic precipitation-hardening steel. 17-4PH material is highly suitable for applications requiring high strength & hardness combined with moderate corrosion resistance. Some of the typical application areas include aerospace, oil & gas and other metal working industries.

