StainlessSteel AISI316L is a corrosion resistant iron based alloy. The parts built from StainlessSteel 316L have chemical composition corresponding to ASTM F138 "Standard Specification for Wrought 18Cr-14Ni-2.5Mo Stainless Steel Bar and Wire for Surgical Implants (UNS S31673)". This kind of stainless steel is characterized having a good corrosion resistance and evidence that there are no leachable substances in cytotoxic concentrations.

This material is ideal in: - Lifestyle/Consumer (watches, other jewellery, spectacle frames, decorations, functional elements in electronic housing and accessories) - Automotive/Industrial (non-corroding common material, food and chemical plants) - Aerospace/Turbine industry (entry-level material for Laser Sintering Technology, mounting parts, brackets, heat exchangers). Parts built from StainlessSteel 316L can be machined, shot-peened and polished in as-built or stress relieved (AMS2759) states if required. Solution annealing is not necessary because the mechanical properties of as-built state are showing desired values (ASTM A403). Parts are not ideal in temperature range 427°C-816°C where precipitation of chromium carbides occurs.