

### Stainless Steel 17-4PH Specifications:

- Material: 17-4PH Stainless Steel
- Bulk density (g/cc): 7.6
- Yield strength, Rp0.2 (MPa): 680
- Ultimate Tensile Strength, Rm (MPa): 880
- Standard for the tensile testing: DIN EN ISO 6892
- Elongation at Break (%): 5.8
- Vicker's Hardness: 257 HV 10
- Standard hardness testing : DIN EN ISO 6507-1

## M.A.T.

### Additive Manufacturing of Metals and Ceramics



**M.A.T. is an Additive Manufacturing (AM) solution for the production of complex geometries made out of metals and ceramics.** With the M.A.T., 3DCERAM utilizes the Fused Filament Fabrication (FFF) technique to produce ceramic and metallic parts with a 3D-printer working with special filaments. The 3D- printed parts are then eliminated of any non-metallic or non-ceramic component (binder) with the help of heat treatment at high temperatures, yielding pure and resistant parts suitable for all engineering applications in a matter of days. This cost-effective technique is suitable for a number of metals and ceramics, including metal-ceramic or ceramic-ceramic composites, and is capable of producing parts with high relative density.