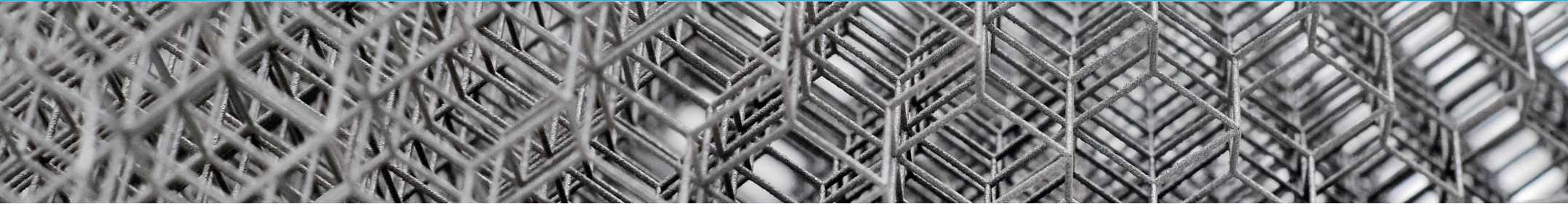




OPEN FOR INDUSTRY

Metal & Polymer Materials for Additive Manufacturing



Mechanical Properties (As printed)	FS 316L Stainless Steel	FS 15-5PH Stainless Steel	FS 17-4PH Stainless Steel	FS 420 Stainless Steel	FS 18Ni300 Maraging Steel	FS CoCrMo Cobalt Chrome	FS CoCrMoW Cobalt Chrome
Density	$\geq 7.9 \text{ g/cm}^3$	$\geq 7.7 \text{ g/cm}^3$	$\geq 7.75 \text{ g/cm}^3$	$\geq 7.7 \text{ g/cm}^3$	$\geq 8.0 \text{ g/cm}^3$	$\geq 8.35 \text{ g/cm}^3$	$\geq 8.65 \text{ g/cm}^3$
Tensile Strength (R_m) ASTM E8/E8M-13a	$\geq 600 \text{ MPa}$	$1150 \pm 100 \text{ MPa}$	$950 \pm 100 \text{ MPa}$	$\geq 1100 \text{ MPa}$	$1100 \pm 100 \text{ MPa}$	$\geq 1150 \text{ MPa}$	$\geq 1100 \text{ MPa}$
Yield Strength ($R_{p0.2}$) ASTM E8/E8M-13a	$550 \pm 50 \text{ MPa}$	$1050 \pm 100 \text{ MPa}$	$600 \pm 50 \text{ MPa}$	$900 \pm 100 \text{ MPa}$	$1050 \pm 100 \text{ MPa}$	n/a	n/a
Elongation after Fracture (A_{50mm}) ASTM E8/E8M-13a	$\geq 30\%$	$16 \pm 4 \%$	$30 \pm 5 \%$	$\geq 2 \%$	$12 \pm 3\%$	$\geq 10\%$	$\geq 10\%$

Mechanical Properties (As printed)	FS AlSi10Mg Aluminum	FS Ti6Al4V Titanium	FS IN625 Inconel	FS IN718 Inconel	FS GH3536 Inconel	FS CuSn10 Bronze
Density	$\geq 2.65 \text{ g/cm}^3$	$\geq 4.4 \text{ g/cm}^3$	$\geq 8.4 \text{ g/cm}^3$	$\geq 8.2 \text{ g/cm}^3$	$\geq 8.3 \text{ g/cm}^3$	$\geq 8.78 \text{ g/cm}^3$
Tensile Strength (R_m) ASTM E8/E8M-13a	$430 \pm 30 \text{ MPa}$	$\geq 1100 \text{ MPa}$	$1000 \pm 100 \text{ MPa}$	$1050 \pm 100 \text{ MPa}$	$840 \pm 50 \text{ MPa}$	$500 \pm 50 \text{ MPa}$
Yield Strength ($R_{p0.2}$) ASTM E8/E8M-13a	$276 \pm 30 \text{ MPa}$	$970 \pm 100 \text{ MPa}$	$730 \pm 50 \text{ MPa}$	$750 \pm 50 \text{ MPa}$	$650 \pm 50 \text{ MPa}$	$380 \pm 30 \text{ MPa}$
Elongation after Fracture (A_{50mm}) ASTM E8/E8M-13a	$3.0 \pm 1\%$	$\geq 7.5\%$	$35 \pm 5\%$	$25 \pm 5\%$	$30 \pm 5\%$	$30 \pm 10 \%$

Many factors may affect the performance characteristics of products. We recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. Farsoon makes no warranties of any type, express or implied, including but not limited to, the warranties of merchantability or fitness for a particular use. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. Farsoon reserves the right to change the technical data without notice. Farsoon®, Buildstar®, Makestar® are registered trademarks of Farsoon Technologies. Last Change: 2019-03-05