

316L

Austenitic high chromium steel offering good mechanical properties and excellent corrosion resistance

Key Features:

- > Excellent corrosion and chemical resistance
- > Good strength and toughness under high-temperature environment
- > Good ductility
- > Optimal processability for laser sintering technology

Example Applications:

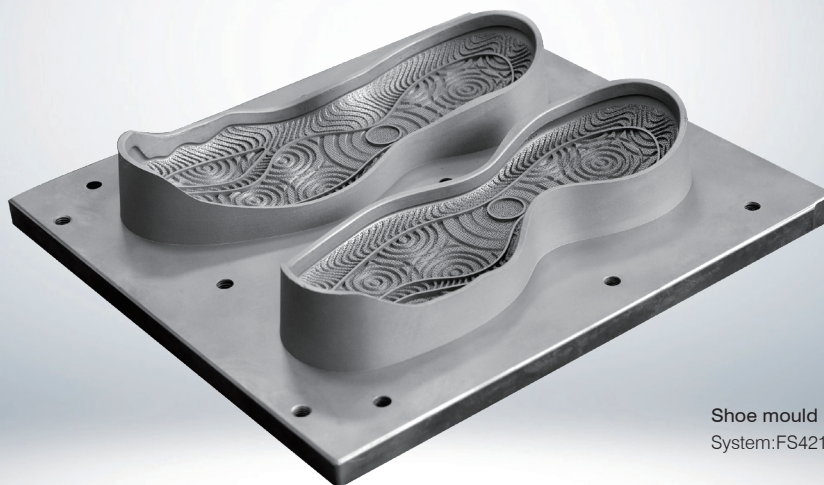
- > High-performance parts in aerospace, automotive, energy and marine engineering
- > Surgical instruments
- > Versatile use for many industrial and civic applications

[Technical Data]

General Properties	Density <small>ISO3369</small>	≥ 7.90 g/cm ³
Mechanical Properties (As built)	Tensile Strength <small>ISO6892-1</small>	≥ 650 MPa
	Yield Strength <small>ISO6892-1</small>	≥ 550 MPa
	Elongation after Fracture <small>ISO6892-1</small>	≥ 35 %
	Vickers hardness <small>ISO6507-1</small>	≥ 205 HV5/15
Mechanical Properties ¹ (Heat treated)	Tensile Strength <small>ISO6892-1</small>	≥ 600 MPa
	Yield Strength <small>ISO6892-1</small>	≥ 400 MPa
	Elongation after Fracture <small>ISO6892-1</small>	≥ 40 %
	Vickers hardness <small>ISO6507-1</small>	≥ 180 HV5/15

¹ For more information on heat treatment process, please contact us directly. Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

Disclaimer: 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: 2022-01-29



Shoe mould
System:FS421M-2

www.farsoon.com