

# 420

Martensitic stainless steel that provides great corrosion resistance with increased strength and hardness

## Key Features:

- > Excellent hardness
- > Good abrasive resistance
- > Great corrosion resistance
- > Good processibility by laser sintering technology

## Example Applications:

- > Medical instruments for surgical and dental use
- > Versatile use for many tooling construction
- > Versatile use for many industrial applications including valves, gears, shafts, cams, pivots etc.
- > Industrial components fabrication used at moderately elevated temperatures

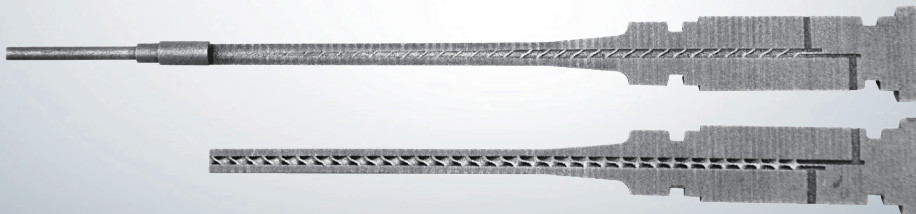
## [ Technical Data ]

General Properties	Density	ISO3369	≥ 7.70 g/cm <sup>3</sup>
Mechanical Properties (As built)	Tensile Strength	ISO6892-1	≥ 1300 MPa
	Yield Strength	ISO6892-1	≥ 820 MPa
	Elongation after Fracture	ISO6892-1	≥ 2 %
Mechanical Properties <sup>1</sup> (Heat treated)	Rockwell hardness	ISO6508-1	≥ 45 HRC
	Tensile Strength	ISO6892-1	n/a
	Yield Strength	ISO6892-1	n/a
	Elongation after Fracture	ISO6892-1	n/a
	Rockwell hardness	ISO6508-1	28~45 HRC

<sup>1</sup> 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.

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Mold Insert Component  
System: FS121M

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