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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 <small>ISO3369</small>	≥ 7.70 g/cm ³
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Mechanical Properties

(As built)

Tensile Strength <small>ISO6892-1</small>	≥ 1300 MPa
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Yield Strength <small>ISO6892-1</small>	≥ 820 MPa
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Elongation after Fracture <small>ISO6892-1</small>	≥ 2 %
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Rockwell hardness <small>ISO6508-1</small>	≥ 45 HRC
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Mechanical Properties ¹

(Heat treated)

Tensile Strength <small>ISO6892-1</small>	n/a
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Yield Strength <small>ISO6892-1</small>	n/a
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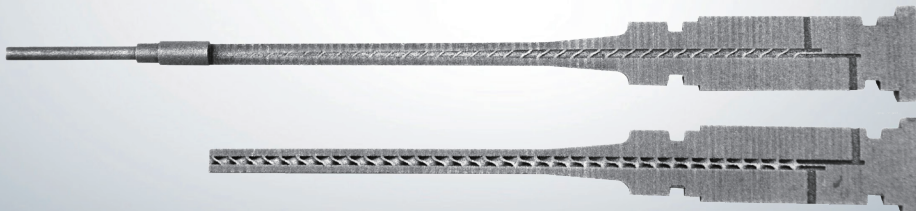
Elongation after Fracture <small>ISO6892-1</small>	n/a
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Rockwell hardness <small>ISO6508-1</small>	28~45 HRC
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¹ For more information on heat treatment process, please contact us directly.

Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

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Mold Insert Component
System: FS121M

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