

CoCrMo

Cobalt, chromium, and molybdenum alloy designated for medical, denture and high-temperature applications

Key Features:

- > Excellent biocompatibility
- > Good heat resistance, thermal fatigue resistance and mechanical properties at elevated temperature
- > Excellent oxidation resistance
- > Great as-finished surface

Example Applications:

- > Ideal for production of removable partial denture (PRD) parts.
- > Most important materials used in orthopedic applications, i.e., total hip replacements
- > High-temperature applications

[Technical Data]

General Properties

| | |
|---------------------------------------|--------------------------|
| Density <small>ISO3369</small> | ≥ 8.35 g/cm ³ |
|---------------------------------------|--------------------------|

Mechanical Properties

(As built)

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|--|------------|
| Tensile Strength <small>ISO6892-1</small> | ≥ 1060 MPa |
|--|------------|

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|--|-----------|
| Yield Strength <small>ISO6892-1</small> | ≥ 800 MPa |
|--|-----------|

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|---|-------|
| Elongation after Fracture <small>ISO6892-1</small> | ≥ 8 % |
|---|-------|

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|--|-----|
| Vickers hardness <small>ISO6507-1</small> | n/a |
|--|-----|

Mechanical Properties ¹

(Heat treated)

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|--|-----------|
| Tensile Strength <small>ISO6892-1</small> | ≥ 970 MPa |
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|--|-----------|
| Yield Strength <small>ISO6892-1</small> | ≥ 620 MPa |
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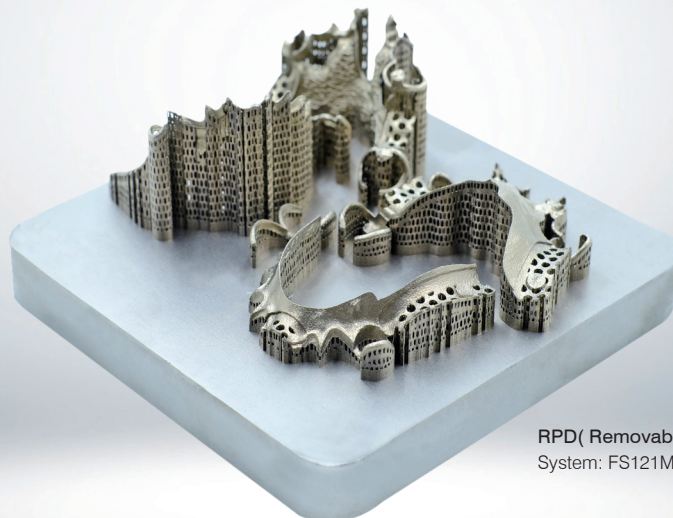
| | |
|---|--------|
| Elongation after Fracture <small>ISO6892-1</small> | ≥ 12 % |
|---|--------|

| | |
|--|--------------|
| Vickers hardness <small>ISO6507-1</small> | ≥ 310 HV5/15 |
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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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RPD(Removable Partial Denture)
System: FS121M

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