



EOS CobaltChrome MP1
for EOS M 100

EOS CobaltChrome MP1

EOS M 100 | 30 μm

EOS CoCr MP1 conforms to chemical composition UNS R31538. Parts built can be machined, welded, polished and coated as required. They are suitable for a wide variety of applications.



Main Characteristics

- High carbon CoCrMo based superalloy
- Good corrosion and wear resistance
- Good mechanical properties

Typical Applications

- Orthopedic implants
- Gas turbines
- Engine components
- Jewelry

Headquarters

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Product Information

Current TRL	3
DMLS System	EOS M 100
Material	EOS CobaltChrome MP1
Process	CoCr_030_100 M100

Layer thickness 30 μm

Volume rate 1.5 mm³/s

Porosity <0,2 %



Further Offices

EOS France
Phone +33 437 497 676

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Typical part properties

	Tensile strength R _m [MPa]	Yield strength R _{p0.2} [MPa]	Elongation at break A [%]
As manufactured vertical	830	1,200	13
As manufactured horizontal	1,040	1,340	11

Status 03/2020

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The quoted values refer to the use of this material with above specified type of EOS DMLS system, EOSYSTEM and EOSPRINT software version, parameter set and operation in compliance with parameter sheet and operating instructions. Part properties are measured with specified measurement methods using defined test geometries and procedures. Further details of the test procedures used by EOS are available on request. Any deviation from these standard settings may affect the measured properties. The data correspond to EOS knowledge and experience at the time of publication and they are subject to change without notice as part of EOS' continuous development and improvement processes. EOS does not warrant any properties or fitness for a specific purpose, unless explicitly agreed upon. This also applies regarding any rights of protection as well as laws and regulations.

