



EOS StainlessSteel 316L VPro High Volume Production

EOS StainlessSteel 316L VPro High Volume Production

This material together with the HiPro process parameters were designed for high volume production. They offer a high productivity of 316L parts on the EOS M 290.



Main Characteristics

- Part properties similar to conventionally manufactured 316L
- Up to 11 mm³/s build rate
- Very cost efficient
- Variable options in development

Typical Applications

316L is a very widely used material in multiple applications and industries. This AM process parameter is developed specifically for volume production, yet enabling complex structures. Hence, it has high potential to replace press and sinter production.

Headquarters

EOS GmbH
Electro Optical Systems
Robert-Stirling-Ring 1
D-82152 Krailling/Munich
Germany
Phone +49 89 893 36-0
Fax +49 89 893 36-285

www.eos.info
info@eos.info

Key parameters

Current TRL	3
Target TRL	open
System	EOS M 290
Material	EOS StainlessSteel 316L VPro
Process	HiPro with 60 µm layer thickness

EOS StainlessSteel 316L

EOS StainlessSteel 316L VPro

	Surface 20 µm	FlexLine 40 µm	VPro 60 µm
Productivity	●	●●	●●●●●
Cost per part	●	●●	●●●●●
Mechanical properties	●●●●●	●●●●●	●●●●
Detail resolution	●●●●●	●●●●●	●●
Density	●●●●●	●●●●●	●●●●

Further EOS Offices

EOS France
Phone +33 437 49 76 76

EOS Greater China
Phone +86 21 602307 00

EOS India
Phone +91 44 39 64 80 00

EOS Italy
Phone +39 02 33 40 16 59

EOS Japan
Phone +81 45 670 0250

EOS Korea
Phone +82 2 6330 5800

EOS Nordic & Baltic
Phone +46 31 760 46 40

EOS of North America
Phone +1 877 388 7916

EOS Singapore
Phone +65 6430 0463

EOS UK
Phone +44 1926 675 110

Typical part properties

	Rm	Rp0.2	A
Mechanical properties vertical	540 MPa	410 MPa	19,5 %
Mechanical properties horizontal	530 MPa	430 MPa	13,5 %
Surface roughness vertical	Typical 10 Ra		

Status 07/2019 (V1.0, 2019-02)

EOS is certified according to ISO 9001. EOS®, DMLS® and EOSPRINT® are registered trademarks of EOS GmbH in some countries. For more information visit www.eos.info/trademarks.

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.

