



Technology Readiness Level



StainlessSteel 316-L VPro
High Volume Production



StainlessSteel 316-L VPro High Volume Production

With this material and process parameters, we address applications which need high build rates at lower costs. This economic powder grade costs less than EOS standard 316L medical grade.



Main characteristics

- Similar mechanical properties and surface to regular 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.

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Key parameters

Key parameters		EOS 316L Surface 20 µm	EOS 316L FlexLine 40 µm	EOS 316L VPro 60 µm
Current TRL	3	●	● ●	● ● ● ● ●
Target TRL	open	●	● ●	● ● ● ● ●
System type	M290	● ● ● ● ●	● ● ● ● ●	● ● ●
Material	316L	● ● ● ● ●	● ● ● ● ●	● ●
Process	Build rates much higher than standard 316L	● ● ● ● ●	● ● ● ● ●	● ● ●
Productivity		●	● ●	● ● ● ● ●
Cost per part		●	● ●	● ● ● ● ●
Mechanical properties		● ● ● ● ●	● ● ● ● ●	● ● ●
Detail resolution		● ● ● ● ●	● ● ● ● ●	● ●
Density		● ● ● ● ●	● ● ● ● ●	● ● ●

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Mechanical properties with 11mm³/s process

	Rm	Rp0.2	A
Vertical	540 MPa	410 MPa	19,5 %
Horizontal	530 MPa	430 MPa	13,5 %
Vertical surface roughness	Typical 10 Ra		

