Stainless Steel 316L

Very Tough and Functional Heat-resistant

An exceptionally strong and resistant metal, replicating *SS136L*.



Benefits

- Highly corrosion and chemical resistance
- High ductility
- Excellent strength and hardness

Applications

- Unique or series production parts
- Plant Engineering
- Automotive Engineering
- Medical Technology
- Jewellery
- Components for moulds



Physical Properties			
Colour	Grey		
Туре	Stainless Steel		

Mechanical Properties		
	Heat Treatment	
Yield Point Re ¹	470 N/mm ²	
Tensile Strength R _m ¹	570 N/mm ²	
Elongation A ^{1,2}	>15 %	
Young's modulus ³	Approx. 200 · 10 ³ N/mm ²	
Thermal Conductivity λ^{3}	Approx. 15 W/mK	
Density (g/cm ³)	7.9	

Hardness		
Hardness ⁴	20 HRC	

¹ Tensile test at 20°C according to DIN EN 50125

² By using a special heat treatment a higher elongation can be achieved

- ³ Specification according to the material manufacturer's data sheet
- ⁴ Hardness test according to DIN EN 6508

Material Composition			
Component	Indicative Value (Weight in %)		
Fe	Balance		
Cr	16,5 – 18,5		
Ni	10,0 – 13,0		
Мо	2,0 – 2,5		
Mn	0 – 2,0		
Si	0 – 1,0		
Р	0-0,045		
С	0 - 0,030		
S	0 – 0,030		

Call: 028 9070 6940 Email: <u>sales@laserproto.com</u> Web: <u>www.laserproto.com</u> Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

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