

CL20ES Stainless Steel

Similar Properties to 316L

Very Tough, Functional, Heat Resistant



Applications

Material is used for manufacturing acid and corrosion resistant prototypes

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



Physical Properties

Colour	Grey
Type	Stainless Steel

Mechanical Properties

	Heat Treatment
Yield Point R_e ¹	470 N/mm ²
Tensile Strength R_m ¹	570 N/mm ²
Elongation A ^{1,2}	>15 %
Young's modulus ³	Approx. $200 \cdot 10^3$ N/mm ²
Thermal Conductivity λ ³	Approx. 15 W/mK

Hardness

Hardness ⁴	20 HRC
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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 (%)
Fe	Balance
Cr	16,5 – 18,5
Ni	10,0 – 13,0
Mo	2,0 – 2,5
Mn	0 – 2,0
Si	0 – 1,0
P	0 – 0,045
C	0 – 0,030
S	0 – 0,030

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