

CL92PH Precipitation hardening stainless steel

Excellent Chemical Resistance, High Hardness
Functional parts and Medical Instruments



Applications

With appropriate approval* the material can be used for manufacturing

- Acid- and corrosion resistant prototypes
- Unique or Series production parts
- Plant engineering
- Automotive industry
- Medical Technology
- Jewellery
- Components for Moulds



Physical Properties

Colour	Grey
Type	Stainless Steel

Mechanical Properties

	Standard Heat Treatment ¹	Extra Heat Treatment ²
Yield Strength $R_{p0.2}$	$1250 \pm 50 \text{ N/mm}^2$	$820 \pm 50 \text{ N/mm}^2$
Tensile Strength R_m	$1350 \pm 50 \text{ N/mm}^2$	$900 \pm 60 \text{ N/mm}^2$
Elongation A	$5 \pm 2 \%$	$13 \pm 2 \%$
Thermal Connectivity λ	16 W/mK^3	16 W/mK^3

Hardness

Hardness	43 – 46 HRC	31 – 35 HRC
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¹ Specification according to ASTM A564/A564M – 13 UNS S17400 for maximum elongation

² Specification according to ASTM A564/A564M – 13 UNS S17400 for maximum strength

³ Specification according to the material manufacturer's data sheet

Material Composition

Component	Indicative Value (Weight in %)
C	0 - 0,07
Mn	0 – 1,00
P	0 – 0,04
S	0 – 0,03
Si	0 – 1,00
Cr	15,00 – 17,50
Ni	3,00 – 5,00
Cu	3,00 – 5,00
Nb+Ta	0,15 – 0,45
Fe	Balance

Call: 028 9070 6940

Email: sales@laserproto.com

Web: www.laserproto.com

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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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