



SWISS MADE PRECISION INSTRUMENTS
100% MANUFACTURED IN SWITZERLAND



info@regine.ch
www.regine.ch

MATERIAL TECHNICAL DATASHEET

HARDENED STAINLESS STEEL (S)

Material number 1.4028 (AISI 420F)

COMPOSITION

	C	Si	Mn	P	S	Cr
Wt %	0.26-0.35	≤ 1	≤ 1.50	0.04	0.030	12-14

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE

State	Annealed	Heat Treated
Hardness HB30	≤ 245	–
Hardness rockwell C	≤ 22.1	–
Tensile strength (N/mm ²)	≤ 800	800 - 1000
0.2 % Yield stress (N/mm ²)	–	≥ 650
Elongation after fracture (L _o = 5d _o)	–	≥ 10%

PHYSICAL PROPERTIES

Density (20 °C) Kg/dm ³	7.7
Specific heat (20 °C) J/(g·K)	0.46
Heat conduction (20 °C) W/(K·m)	30
Electric resistance (20 °C) (Ω·mm ²)/m	0.65
Modulus of elasticity (20 °C) KN/mm ²	215

Regine Switzerland SA
P.O. Box 264
Viale Serfontana 11
CH-6834 Morbio Inferiore
Switzerland
tel +41 91 683 55 37
fax +41 91 683 93 91

Technical information are provided to the best of Regine Switzerland SA knowledge and average values obtained from laboratory's test made on the material.

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