



SWISS MADE PRECISION INSTRUMENTS
100% MANUFACTURED IN SWITZERLAND



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MATERIAL TECHNICAL DATASHEET

ANTIMAGNETIC, ANTI-ACID STEEL (SA)

Material number 1.4435 (AISI 316L)

COMPOSITION

	C	Si	Mn	P	S	Cr	Mo	Ni
Wt %	≤ 0.030	≤ 1	≤ 2	≤ 0.045	≤ 0.03	17-19	2.5-3.0	12.5-15

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE

State	Annealed (Solution Heat Treated)
Hardness rockwell HB30	≤ 215
Tensile strength (N/mm ²)	500 - 700
0.2 % Yield stress (N/mm ²)	200
Elongation after fracture (L ₀ = 5d ₀)	≥ 40%

PHYSICAL PROPERTIES

Density (20 °C) Kg/dm ³	8
Specific heat (20 °C) J/(g·K)	0.50
Heat conduction (20 °C) W/(K·m)	15
Electric resistance (20 °C) (Ω·mm ²)/m	0.75
Modulus of elasticity (20 °C) KN/mm ²	200

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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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