



SWISS MADE PRECISION INSTRUMENTS
100% MANUFACTURED IN SWITZERLAND



info@regine.ch
www.regine.ch

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

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.

Regine Switzerland SA declines all responsibility from an improper application or use of the product described in this documents.



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COATING TYPE EPOXY (EE,EI,EC)

General notes

This polyester epoxy coating comprises essentially polyester and epoxy resins



MECHANICAL PROPERTIES

Impact resistant surface with excellent flow, Good elasticity, Good general resistance values



HEAT RESISTANCE

Can withstand temperatures up to 120°C



CHEMICALS RESISTANCE

Good resistance to many diluted acids and alkalis, Loads from organic solvents are only possible conditionally and for a short time



ELECTRICAL PROPERTIES

This Epoxy coating is insulating with a surface resistance $10^{12} \Omega$

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