

Brand name | INCONEL® Alloy 690, Nicrofer® 6030

Trade name | Alloy 690

Material No.	EN Designation	UNS	Alloy
2.4642	NiCr29Fe	N06690	690

Description | Alloy 690 / 2.4622 is a nickel-chromium-iron alloy.

Special properties | High corrosion resistance to oxidizing media.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.05	0.50	0.50	0.02	0.015
Cr %	Ni %	Ti ≤ %	Cu %	Al %
27.0-31.0	Rest	≤ 0.50	≤ 0.50	≤ 0.50
Fe %				
7.00-11.0				

0.2% Yield strength R_p ≥ N/mm ²	Tensile strength R_m N/mm ²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm ²
240	≥ 586	30	215

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.2	450	12	1.15

Suitable welding filler materials | 2.4648

Application | Nuclear fuel processing, steam generators in pressurized water reactors

Available forms for 2.4642 / ALLOY 690

