

Brand name | Nicrofer® 6025 HT

Trade name | Alloy 602 CA

Material No.	EN Designation	UNS	Alloy
2.4633	NiCr25FeAlY	N06025	602 CA

Description | Alloy 602 CA / 2.4633 is a high-carbon nickel-chromium-iron alloy with additions of aluminum and yttrium.

Special properties | Outstanding resistance to oxidation at high temperatures, even under cyclic conditions. Good corrosion resistance in carburizing environments. Excellent high temperature creep properties

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.15-0.25	0.50	0.50	0.02	0.01
Cr %	Ni %	Ti ≤ %	Cu %	Al %
24.0-26.0	Rest	0.10-0.20	≤ 0.10	1.80-2.40
Zr %	Fe %	Y %		
0.01-0.10	8.00-11.0	0.05-0.12		

0.2% Yield strength $R_{p0.2}$ ≥ N/mm ²	Tensile strength R_m N/mm ²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm ²
270	≥ 670	30	215

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
7.9	450	11.3	1.15

Suitable welding filler materials | 2.4649; 2.4633

Application | Furnace components, chemical and petrochemical industry

Available forms for 2.4633 / ALLOY 602 CA

Sheets/Plates	Bars	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
					