1.4974 AISI 661

Trade name

Alloy N-155

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4974	X12CrCoNi21-20	661	R30155
Alloy			
N-155			

Description

Alloy N-155 / 1.4961 is a chromium-nickel-cobalt alloy.

Special properties

Excellent heat resistance up to 800°C. Good ductility. Excellent oxidation resistance.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.08-0.16	1.00	1.00-2.00	0.04	0.03
Cr %	**Mo %**	**Ni %**	**N %**	**Co %**
20.0-22.5	2.50-3.50	19.0-21.0	0.10-0.20	18.5-21.5
W %	**Nb %**			
2.00-3.00	0.75-1.25			

Mechanical Properties 20°C

0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Resistant on air up to °C
345	690-930	20	980

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
8.25	460	12	0.92

Application

Components for chemical and petrochemical industry

Available forms for 1.4974 / AISI 661

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

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