

Brand name | Inconel® Alloy 693

Trade name | Alloy 693

Standards	UNS	Alloy
	N06693	693

Description | Alloy 693 is a nickel-chromium-iron-aluminum alloy with niobium addition.

Special properties | Best resistance to metal dusting in chemical and petrochemical processing environments of any conventional nickel-alloy currently manufactured.

Chemical Composition	C %	Si ≤ %	Mn ≤ %	S ≤ %	Cr %
	≤ 0.15	0.50	1.00	0.01	27.0-31.0
	N %	Ti ≤ %	Cu %	Al %	Fe %
	0.50-2.50	1.00	≤ 0.50	2.50-4.00	2.50-6.00

Mechanical Properties 20°C	Hardness HB 30 ≤ HB	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
	330	1000	≥ 1150	15	200

Physical Properties 20°C	Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	7.77	475	16	1.16

Application | Chemical and petrochemical industry

Available forms for / ALLOY 693	Sheets/Plates	Bars	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
						