



Grade	Code	UNS	Nickel Alloys
C-22	2.4602	N06022	

Nickel Alloy Properties

Alloy C-22 is A Nickel-Chromium-Molybdenum alloy with better overall resistance and versatility than any other NiCrMo available. N06022 has excellent resistance to localised corrosion and to a variety of mixed industrial chemicals.

Chemical Composition (C-22)

Ni %	Cr %	C %	Mo %	Mn %	Si %	Co %	V %	W %	Fe %
Balance	20,00 – 22,50	0,01 max.	12,50 – 14,50	0,50 max.	0,08 max.	2,50 max.	0,35 max.	2,50 - 3,50	2,00 – 6,00

Mechanical Properties

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness[RB]	Density [g/cm ³]
Bar - Dia. of 12.7-139.7 mm	379	793	60	89	8,61

Suitable For

Alloy C-22 (UNS N06022) has a broad field of application in the chemicals and petrochemicals industry and is used for components in organic processes that contain chloride and for catalytic systems. Alloy C-22 is especially effective in hot, contaminated mineral acids, solutions, organic acids (such as formic acid and acetic acid) or sea water. Other fields of application are: Acetic acid production Pharmaceuticals industry Fine chemicals.

Remarks

Its high ductility aids cold forming, although work hardening may require intermediate annealing. Welding can be by gas tungsten-arc, gas metal-arc, and shielded metal-arc processes.

Specification

Alloy C-22, 2.4602, N06022,

Norm

ASTM B 574, B 575