

FUTURE ALLOYS

ALLOY C-22

SPECIFICATIONS	UNS N06022	ASTM B-575						ASME SB-575			
CHEMICAL COMPOSITION %	MIN	NI ---	CR 20.0	MO 12.5	W 2.5	SI ---	C ---	Co ---	S ---	V ---	FE 2.0
	MAX	balance	22.5	14.5	3.5	0.08	0.015	2.5	0.02	0.35	6.0
PHYSICAL PROPERTIES	POISSON'S RATIO	MELTING RANGE			DENSITY 0.311 lb/in ³			ELECTRICAL RESISTIVITY			
	TEMPATURE, °F										
	COEFFICIENT OF THERMAL EXPANSION IN/IN °F x 10 ⁻⁶										
	THERMAL CONDUCTIVITY Bru · FT/FT ² · hr · °F										
	MODULAS OF ELASTICITY DYNAMIC, psi x 10 ⁶	30			---			---			
MECHANICAL PROPERTIES	TENSILE STRENGTH 105 ksi						ELONGATION % 67				
	0.2% YEILD STRENGTH 50 ksi						HARDNESS MAX, Bhn 173				
APPLICATIONS	Flue gas desulfurization systems, Bleaching processes in pulp and paper plants, Waste incenerators, Sour gas service, Chemical processing plants, Pharmacuetical, Radioactive waste storage										