FUTURE ALLOYS

ALLOY 255

SPECIFICATIONS	UNS S32550	ASTM	ASME

CHEMICAL COMPOSITION %

	NI	CR	MO	MN	SI	CU	C	N	S	P	FE
MIN	4.5	24.0	2.9	---	---	1.5	---	0.10	---	---	---
MAX	6.5	27.0	3.9	1.5	1.0	2.5	0.04	0.25	0.03	0.04	balance

PHYSICAL PROPERTIES

POISSON'S RATIO	MELTING RANGE	DENSITY	ELECTRICAL RESISTIVITY
		0.279 lb/in^3	82.1 microhm-cm. at 72° F

TEMPATURE, °F				
COEFFICIANT 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				

MECHANICAL PROPERTIES

TENSILE STRENGTH 110 ksi	ELONGATION % 15
0.2% YEILD STRENGTH 80 ksi	HARDNESS MAX, Bhn 302

APPLICATIONS

Marine, Phosphoric acid and fertilizer indutry, Pollution control equipment, Pulp and paper industry, Petrochemical industry