

# FUTURE ALLOYS

# ALLOY 254SMO

SPECIFICATIONS	UNS S31254	ASTM A-240						ASME SA-240				
CHEMICAL COMPOSITION %	MIN	NI 17.5	CR 19.5	MO 6.0	MN ---	SI ---	CU 0.5	C ---	N 0.18	S ---	P ---	FE ---
	MAX	18.5	20.5	6.5	1.0	.80	1.0	.020	0.22	0.01	0.03	balance
PHYSICAL PROPERTIES	POISSON'S RATIO	MELTING RANGE			DENSITY			ELECTRICAL RESISTIVITY				
	TEMPATURE, °F											
	COEFFICIENT OF THERMAL EXPANSION IN/IN °F x 10 <sup>-6</sup>											
	THERMAL CONDUCTIVITY Bru · FT/FT <sup>2</sup> · hr · °F											
	MODULAS OF ELASTICITY DYNAMIC, psi x 10 <sup>6</sup>											
MECHANICAL PROPERTIES	TENSILE STRENGTH						ELONGATION %					
	0.2% YEILD STRENGTH						HARDNESS MAX, Bhn 210					
APPLICATIONS	Seawater handling equipment, Pulp mill bleach systems, Tall oil distillation columns, Chemical processing equipment, Food processing, Desalination, Flue gas, Oil and gas production equipment											