

# FUTURE ALLOYS

# ALLOY 904L

SPECIFICATIONS	UNS N08904			ASTM A-240				ASME SB-625				
CHEMICAL COMPOSITION %	MIN	NI 23.0	CR 19.0	MO 4.0	MN ---	SI ---	CU 1.0	C ---	N ---	S ---	P ---	FE ---
	MAX	28.0	23.0	5.0	2.0	1.0	2.0	0.02	---	0.035	0.045	balance
PHYSICAL PROPERTIES	POISSON'S RATIO		MELTING RANGE			DENSITY 0.287 lb/in <sup>3</sup>		ELECTRICAL RESISTIVITY 95.2 microhm-cm. at 68° F				
	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>			28								
MECHANICAL PROPERTIES	TENSILE STRENGTH 71,000 psi					ELONGATION % 36 min						
	0.2% YEILD STRENGTH 31,000 psi					HARDNESS MAX, Bhn 150						
APPLICATIONS	processing plants for sulfuric, phosphoric and acetic acids, pulp and paper, seawater cooling equipment, oil refineries, gas scrubbing plants, wires in electrostatic precipitators											