

# FUTURE ALLOYS

# ALLOY 316L

SPECIFICATIONS	UNS S31603	ASTM A-240	ASME SA-240								
CHEMICAL COMPOSITION %	MIN	NI 10.0	CR 16.0	MO 2.0	MN ---	SI ---	C ---	N ---	S ---	P ---	FE ---
	MAX	14.0	18.0	3.0	2.0	0.75	0.03	0.10	0.03	0.045	balance
	POISSON'S RATIO	MELTING RANGE			DENSITY 0.29 lb/in <sup>3</sup>			ELECTRICAL RESISTIVITY 74.0 microhm-cm. at 68° F			
PHYSICAL PROPERTIES	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>			29		---		---		---	
MECHANICAL PROPERTIES	TENSILE STRENGTH 70,000 psi					ELONGATION % 40					
	0.2% YEILD STRENGTH 25,000 psi					HARDNESS MAX, Bhn 217					
APPLICATIONS	Food, Pharmaceutical, Marine, Architecture										