

FUTURE ALLOYS

ALLOY 304

SPECIFICATIONS	UNS S30400	ASTM A-240	ASME SA-240		
CHEMICAL COMPOSITION %	MIN	NI 8.0 CR 17.5 MO --- MN --- SI --- C ---	N --- S --- P --- FE ---		
	MAX	10.5 19.5 --- 2.0 .075 0.07	.10 0.03 0.045 balance		
	PHYSICAL PROPERTIES	POISSON'S RATIO	MELTING RANGE	DENSITY 0.285 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	29	---	---	---
MECHANICAL PROPERTIES	TENSILE STRENGTH	75,000 psi	ELONGATION %	40	
	0.2% YEILD STRENGTH	30,000 psi	HARDNESS MAX, Bhn	201	
APPLICATIONS	Food and beverage, pulp and paper, Chemical processing, Transportation, ethanol production				