

FUTURE ALLOYS

ALLOY 654SMO

SPECIFICATIONS	UNS S32654	ASTM A-240						ASME SA-240				
CHEMICAL COMPOSITION %	MIN	NI 21.0	CR 24.0	MO 7.0	MN 2.0	SI ---	CU .30	C ---	N 0.45	S ---	P ---	FE ---
	MAX	23.0	25.0	8.0	4.0	0.5	.60	0.02	0.55	0.005	0.03	balance
PHYSICAL PROPERTIES	POISSON'S RATIO	MELTING RANGE			DENSITY 0.289 lb/in ³			ELECTRICAL RESISTIVITY 30.7 x 10 ⁻⁶ in.				
	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	27.4										
MECHANICAL PROPERTIES	TENSILE STRENGTH 109 ksi						ELONGATION % 40					
	0.2% YEILD STRENGTH 62 ksi						HARDNESS MAX, Bhn 250					
APPLICATIONS	Critical seawater and severe brackish water handling systems, Chlorine and chlorine dioxide pulp bleaching systems, Chemical processing equipment, Desalination systems, Municipal waste incineration systems, Plate heat exchangers											