

FUTURE ALLOYS

ALLOY 2205

SPECIFICATIONS	UNS S31803	ASTM A-240	ASME SA-240								
CHEMICAL COMPOSITION %	MIN	NI 4.5	CR 21.0	MO 2.5	MN ---	SI ---	C ---	N 0.08	S ---	P ---	FE ---
	MAX	6.5	23.0	3.5	2.0	1.0	0.03	0.2	0.02	0.03	balance
	POISSON'S RATIO	MELTING RANGE			DENSITY 0.283 lb/in ³			ELECTRICAL RESISTIVITY			
PHYSICAL PROPERTIES	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 90,000 psi					ELONGATION % 25					
	0.2% YEILD STRENGTH 65,000 psi					HARDNESS MAX, Bhn 293					
APPLICATIONS	Power generation, Oil and gas, Chemical processing, Desalination										