

# FUTURE ALLOYS

# ALLOY C276

SPECIFICATIONS	UNS N10276	ASTM B-575	ASME SB-575																																		
CHEMICAL COMPOSITION %	MIN	<table border="1"> <thead> <tr> <th>NI</th> <th>CR</th> <th>MO</th> <th>MN</th> <th>SI</th> <th>W</th> <th>C</th> <th>Co</th> <th>S</th> <th>P</th> <th>FE</th> </tr> </thead> <tbody> <tr> <td>---</td> <td>14.5</td> <td>15.0</td> <td>---</td> <td>---</td> <td>3.0</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>4.0</td> </tr> <tr> <td>MAX</td> <td>balance</td> <td>16.5</td> <td>17.0</td> <td>1.0</td> <td>0.08</td> <td>4.5</td> <td>0.01</td> <td>2.5</td> <td>0.01</td> <td>0.025</td> <td>7.0</td> </tr> </tbody> </table>	NI	CR	MO	MN	SI	W	C	Co	S	P	FE	---	14.5	15.0	---	---	3.0	---	---	---	---	4.0	MAX	balance	16.5	17.0	1.0	0.08	4.5	0.01	2.5	0.01	0.025	7.0	
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PHYSICAL PROPERTIES	POISSON'S RATIO	MELTING RANGE		DENSITY 0.321 lb/in <sup>3</sup>		ELECTRICAL RESISTIVITY 130 microhm-cm. at 70° 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>		29.8			---			---		---																										
MECHANICAL PROPERTIES	TENSILE STRENGTH 100,000 psi		ELONGATION % 40																																		
	0.2% YEILD STRENGTH 41,000 psi		HARDNESS MAX, Bhn 100																																		
APPLICATIONS	Pollution control, Pulp and paper, Waste treatment, Chemical and petrochemical processing, Flue gas desulfurization																																				