

HM Wire International, Inc.

Ph: 330-244-8501 Fax: 330-244-8561

www.litz-wire.com info@litz-wire.com www.hmwire.com

REQUEST
A
QUOTATION

Alloy 276 - Nickel C-Family Alloy

Description: Alloy 276 is a well established C-Family Alloy and has excellent resistance to pitting, crevice and stress corrosion cracking, and good resistance to wet chlorine.

Applications: Digesters and bleach plants in paper industry, for components exposed to sour gas, evaporators, heat exchangers, filters and mixers used in sulphic acid environments.

Nominal Composition:	C	Mn	Si	P	S	Cr	Ni
	0.010	1.0	0.08	0.015 Max	0.010 Max	14.5-16.5	Balance
	V	Fe	Mo	Co			
	0.35 Max	4.0-7.0	15.0-17.0	2.5			

Physical and Mechanical Properties

	Metric Units
Density	8.9 gm/cu cm
Specific Heat	407 J/kg K
Electrical Resistivity	125 micro ohms cm
Melting Range	1325 - 1370°C
Thermal Expansion (10 ⁻⁶ K)	12.8 (20 - 300°C)
Yield Strength	Rp 0.2%
20°C Temp	280N/mm sq
100°C Temp	270N/mm sq
200°C Temp	260N/mm sq
300°C Temp	250N/mm sq
400°C Temp	235N/mm sq
Tensile Strength	RM
	700N/mm sq
Elongation	A5 min
	40%

*To be used as a guideline only.

Copyright ©2011 HM Wire International

R1.06.13.2011